

$\frac{19}{50}$

NAME Robert Hager

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)] = 4$

$(-5) - (-1)$
 $(-1) - (-4) = 4$
2

2. $4(7x+3) - (x+2)$

$(28x+12) - (4x+8)$

2

3. Multiply: $(2x^2 - 1)(3x^2 + 4)$

~~X~~

4. Simplify $(3x - 4y)^2$

~~X~~

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$X(x+19)$

0

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$a^3b^3(30b + 20a)$

$(a^3b^3)(10)(3b + 2a)$

5

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4} = \frac{x^3}{y}$

5

8. Simplify $(2x^{-4})^3$

$(2 \cdot \frac{x}{4})^3$
 $(\frac{2x}{4})^3$ 0

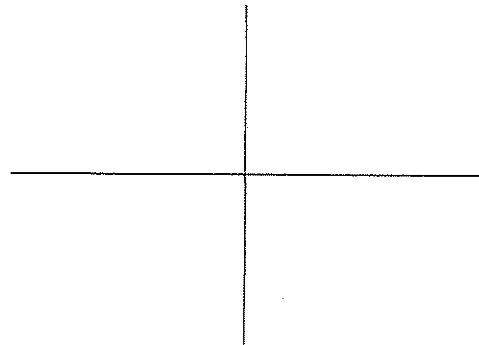
9. Solve for x: $8x - 2 = 6x - 10$

$2x = -8$

$x = -4$

5

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

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NAME Cheyenne Wells

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following: 4

1. $2-3[(5-10)-(3-2)]$

$2-3[(-5)(0)]$

$2-3[0]$

2

2

5
-10
4
3
2
1
0
-1
-2
-3
-4
-5
3 3
-4 2
0
2 2
-3 1
0

2. $4(7x+3)-(x+2)$

$(28x+12)-(x+2)$

$-28x^2 - 12x + 24$

Not product

2

12
2
24

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 - 3x^2 - 4$

3

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$9x^2 - 12xy + 16y^2$

5

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

~~11~~

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$10a^2b^3$
 $3a^1b^1$
 $2b^1$
0

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$\frac{x^3}{y}$ 3

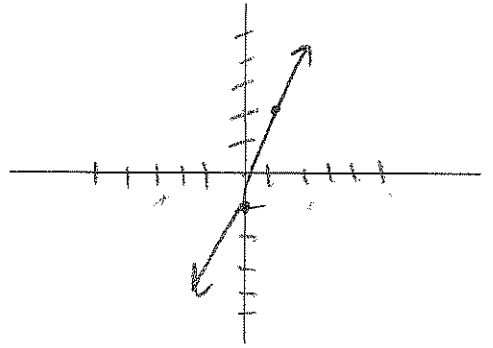
8. Simplify $(2x^{-4})^3^{-12}$

$2x^{-12}$
 $2 \cdot 2 \cdot 2 = 8$
 $2^{-2} = \frac{1}{4}$
 $8 \cdot \frac{1}{4} = 2$
 $-16x$

9. Solve for x:

$8x - 2 = 6x - 10$
 $+2 \quad +2$
 $8x = 6x - 8$
 $-6x \quad -6x$
 $2x = -8$ 2.4
 $\frac{2x}{2} = \frac{-8}{2}$
 $x = -4$

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

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c. Other reason _____

$$\frac{34}{50}$$

NAME Ashleigh Muñoz

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2 - 3[(5 - 10) - (3 - 2^2)]$

$$\begin{aligned} & 2 - 3[(-5) + (-1)] \\ & 2 - 3[-6] \\ & -1[-6] \\ & 6 \\ & 2 \end{aligned}$$

2. $4(7x + 3) - 1(x + 2)$

$$\begin{aligned} & 28x + 12 - 1x - 2 \\ & 27x + 10 \\ & 5 \end{aligned}$$

3. Multiply: $(2x^2 - 1)(3x^2 + 4)$

$$\begin{aligned} & 3x^2(2x^2 - 1) + 4(2x^2 - 1) \\ & 6x^4 - 3x^2 + 8x^2 - 4 \\ & 6x^4 + 5x^2 - 4 \\ & 5 \end{aligned}$$

4. Simplify $(3x - 4y)^2$

$$\begin{aligned} & (3x - 4y)(3x - 4y) \\ & 3x(3x - 4y) - 4y(3x - 4y) \\ & 9x^2 - 12xy - 12xy + 16y^2 \\ & 9x^2 - 24xy + 16y^2 \\ & 5 \end{aligned}$$

factor the following:

5. Completely factor:

$$x^2 + 7x + 12$$

$$(x + 3)(x + 4)$$

5

$$\begin{array}{r} 12 \\ 1 \cdot 12 \\ 2 \cdot 6 \\ 3 \cdot 4 = 7 \end{array}$$

6. Completely factor:

$$30a^3b^4 + 20a^4b^3$$

$$\frac{10a^3b^3}{10a^3b^3}$$

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$\frac{x^3}{y^1}$

5

8. Simplify $(2x^{-4})^3$

$8x^{-12}$

2

9. Solve for x:

$$8x - 2 = 6x - 10$$

$$+2 \quad +2$$

$$8x = 6x - 8$$

$$-6x \quad -6x$$

$$\frac{2x}{2} = \frac{-8}{2}$$

$$x = -4$$

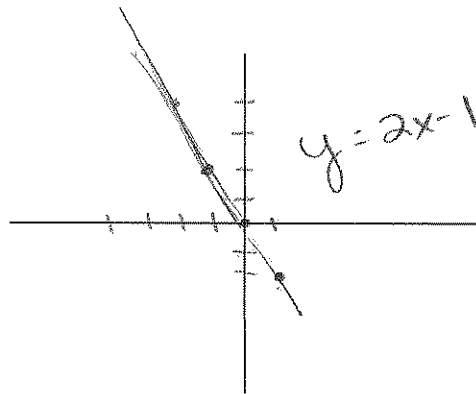
4

10. Sketch the graph of $y = 2x - 1$

$y = mx + b$

slope

$mx = \text{slope}$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

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50

NAME Bart Rodriguez III

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

Handwritten work for problem 1:

$2-3[(5-10)-(3-2^2)]$

Annotations: "OK" with an arrow pointing to $(3-2^2)$, "NOT OK" with an arrow pointing to the entire expression.

Work shown:

$$\begin{array}{r} -5 \quad -2+4 \\ (-5) - (1) \\ \hline -1 \quad (-5) \quad (1) \\ (5) \quad (-1) \\ \hline -5 \quad 2 \end{array}$$

2. $4(7x+3)-(x+2)$

Handwritten work for problem 2:

$$28x+12-x-2$$

$$27x+10$$

5

3. Multiply:

$(2x^2-1)(3x^2+4)$

Handwritten work for problem 3:

$$6x^4+8x^2-3x^2-4$$

$$6x^4+5x^2-4$$

5

4. Simplify $(3x-4y)^2$

$6x^2+8y^2$

1

factor the following:

5. Completely factor:

$x^2+7x+12$

Handwritten work for problem 5:

$$(x+3)(x+4)$$

$x^2+4x+3x+12$

$x^2+7x+12$

$(x+3)(x+4)$

5

6. Completely factor:

$30a^3b^4+20a^4b^3$

~~11~~

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\frac{x^3}{y} \quad 5$$

8. Simplify $(2x^{-4})^3$

$$(2x^{-4})^3$$

$2^3 x^{-12}$
 $8x^{-12}$
3

?

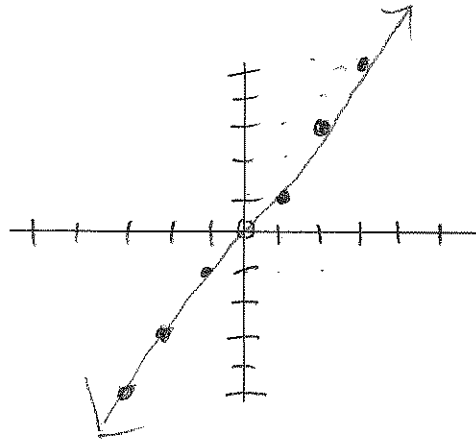
9. Solve for x:

$$8x - 2 = 6x - 10$$

$$\begin{array}{r} +2 \\ \hline 8x = 6x - 8 \end{array}$$

10. Sketch the graph of $y = 2x - 1$

2



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{14}{50}$

NAME Alyssa Parrott

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[-5+1]$

$2-3[-4]$

$= -1[-4]$

3

2. $4(7x+3)-(x+2)$

$28x+12-x+2$

$= 27x+14$

3

3. Multiply: $(2x^2-1)(3x^2+4)$

$(2x^2-1)(3x^2+4) \rightarrow \text{Times}$

$6x^4 + 2x^2 + 4 - 3x^2 + 4$

$= 6x^4 - 1x^2$

2

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$9x^2 - 12xy - 12xy + 16y^2$

$9x^2 + 16y^2$

$= 3x^2 + 8y^2$

2

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

~~Factor by grouping~~

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$30a^3b^4 + 20a^4b^3$

$3a^3b^4 + 2a^4b^3$

$= 5a^3b^3(a+b)$

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\frac{x^8 y^3}{x^5 y^4} = \frac{x^8 y^3}{x^5 y^4} \quad \text{O}$$

8. Simplify $(2x-4)^3$

$$(2x-4)(2x-4)(2x-4)$$

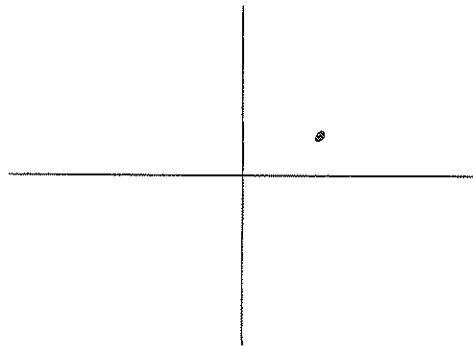
2

9. Solve for x: $8x - 2 = 6x - 10$

$$\begin{array}{r} 8x - 2 = 6x - 10 \\ + 10 \quad + 10 \end{array}$$

10. Sketch the graph of $y = \frac{2x - 1}{x + 2}$

O



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

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50

NAME COOY BLACKSTON

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$-5 = (-1)$

$23(-4)$

$-1(-4) = 3$

2

2. $4(7x+3)-(x+2)$

$28x+12 - 4x+8$

$24x+20$

2

3. Multiply: $(2x^2-1)(3x^2+4)$

$5x^2 - 3x^2$

f

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

=?

1

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

~~$(x+7)(x+12)$~~

$(x)(x+7)(12)$

1

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

~~$(15)(2)(7)(7)$~~

1

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

~~$x^3 y^{-1}$ or... $x^3 y^{-1}$~~
~~4~~

8. Simplify $(2x^{-4})^3$

$2x^{-12}$
3

9. Solve for x:

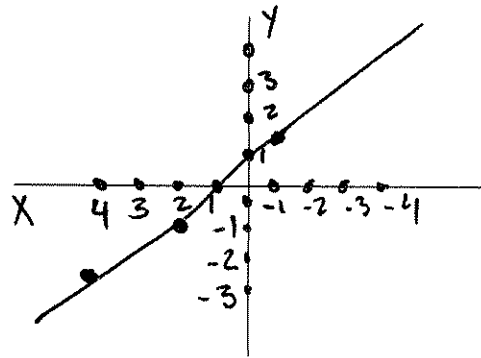
$8x - 2 = 6x - 10$
 ~~$-4x + 2$~~

$2x = -8 \quad x = -4$

5

10. Sketch the graph of $y = 2x - 1$

2



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better. (Barely)

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

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50

NAME CRYSTAL PAISILLA

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2(-15+30)-(9-3+2^2)$

2

2. $4(7x+3)-(x+2)$

$(28x+12)-(x+2)$

$27x+12-x-2$

$\frac{27x}{27} + \frac{10}{27}$

x =

3

3. Multiply: $(2x^2-1)(3x^2+4)$

$5x^4 + 8x^2 - 3x^2 + 4$

$5x^4 - 5x^2 + 4$

2

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$3x^2 - 3x4y - 4y3x + 16y^2$

2

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$(x+2)(x+5)$

4

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

5

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

8. Simplify $(2x^{-4})^3$

9. Solve for x:

$$8x - 2 = 6x - 10$$

$$8x - 2 = 6x - 10$$

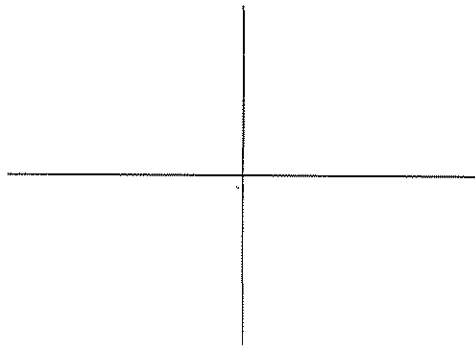
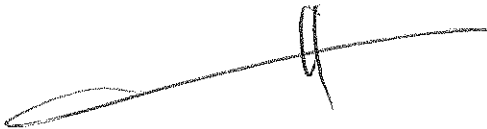
$$8x + 2 = 6x - 10 + 2$$

$$8x = 6x - 8$$

$$2x = -8$$

2

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{14}{50}$

NAME Makenna Downer

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(-5)-(-1)]$

$2-3(-4)$
 $-1x-4$
 4 2

2. $4(7x+3)-(x+2)$

$4(6x+5)$

1

3. Multiply: $(2x^2-1)(3x^2+4)$

$(2x^2+1)(3x^2+4)$

$6x^2+4$

1

4. Simplify $(3x-4y)^2$

$9x-16y$

0

factor the following:

5. Completely factor:

$x^2+7x+12$

$x \cdot x + 7x + 2 \cdot 2 \cdot 3$

1

6. Completely factor:

$30a^3b^4+20a^4b^3$

$5 \cdot 2 \cdot 3 \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b \cdot b$
 $5 \cdot 2 \cdot 2 \cdot a \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b$

2

4.4.4

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

~~x x x x x x x x y y y~~
~~x x x x x x x x y y y~~

$\frac{x^3}{y}$

8. Simplify $(2x^{-4})^3$

~~$(16x^{-4})^3$~~

9. Solve for x:

$8x - 2 = 6x - 10$

$10 + 8x - 2 = 6x - 10 + 10$

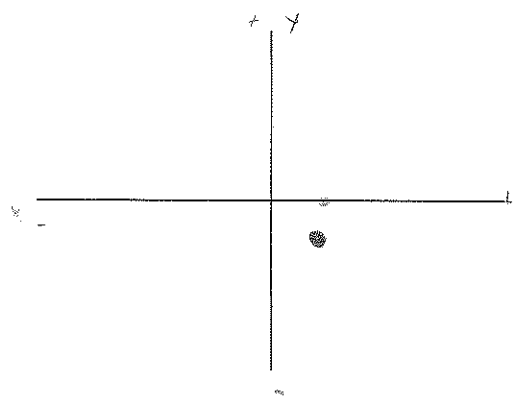
$8x + 8 = 6x - 8$

$\frac{8x}{6x} = \frac{6x - 8}{6x}$

$\frac{2 \cdot 2 \cdot 2x}{2 \cdot 3x}$

$x = \frac{4}{3}$

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

7

$\frac{4}{50}$

NAME Josef Tiner

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(-5)-\textcircled{1}]$

$2-3[-6]$

$-1 \cdot -6$

$=6$

2

2. $4(7x+3)-(x+2)$

$4(10x)-(2x)$

$40x-2x$

$=38x$

1

3. Multiply: $(2x^2-1)(3x^2+4)$

~~XXXXXXXXXX~~

4. Simplify $(3x-4y)^2$

$(3-4)xy^2$

$=-1xy^2$

0

factor the following:

5. Completely factor:

$x^2+7x+12$

~~XXXXXXXXXX~~

6. Completely factor:

$30a^3b^4+20a^4b^3$

~~XXXXXXXXXX~~

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

~~H~~

8. Simplify $(2x^{-4})^3$

2x

0

9. Solve for x:

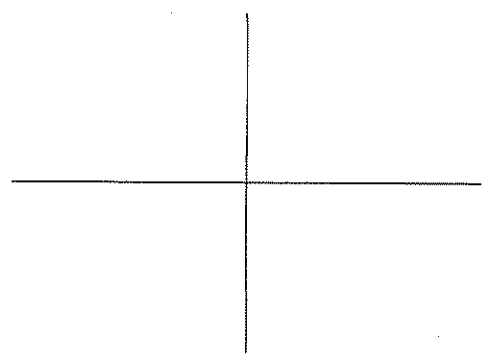
$$8x - 2 = 6x - 10$$

$$x = 6$$

|

10. Sketch the graph of $y = 2x - 1$

~~H~~



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

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b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

|

33
50

NAME Isaijah Juanicovena

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(5-10)-(3-4)]$

$2-3[(-5)-(-1)]$

$2-3[(-5)]$

$-1[-5]$ 2
5

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^3 - 3x^2 - 4$
 $6x^4 + 5x^3 - 4$

3

2. $4(7x+3)-(x+2)$

$28x+12-x-2$

$27x+10$

5

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$9x^2 - 12xy - 12xy + 16y^2$

No $9x^2 + 16y^2$

3

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$x^2 + 7x + 12$

$(x+4)(x+3)$ 5

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$(5a^2+6b^3)(5a^3+4b^2)$
1

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$\frac{x^3 y^0}{1}$
3

8. Simplify $(2x-4)^3$

$(2x-4)(2x-4)(2x-4)$
 $8x^3 - 12$

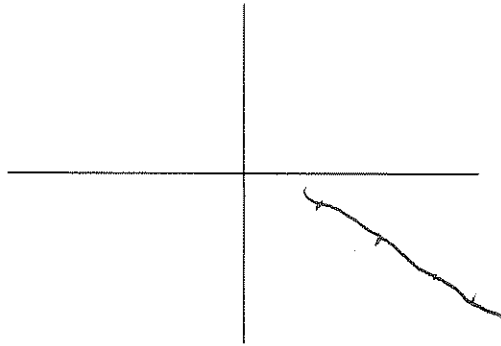
9. Solve for x:

$8x - 2 = 6x - 10$

$8x - 2 = 6x - 10$
 $+2 \quad +2$
 $8x = 6x - 8$
 $-6x \quad -6x$
 $2x = -8$
 $\frac{2x}{2} = \frac{-8}{2}$
 $x = -4$

10. Sketch the graph of $y = 2x - 4$

$y = \text{slope intercept form?}$



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c. Other reason _____

34
50

NAME Jessica Armenta

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$
 $2-3[(-5)-(3-4)]$
 $2-3[(-5)-(-1)]$
 $2-3[-5+1]$
 $2-3(-4)$
 $-1(-4)$ 4

2

2. $4(7x+3)-(x+2)$
 $28x+12-x+2$
 $27x+14$

3

3. Multiply: $(2x^2-1)(3x^2+4)$
 $6x^4+8x^2-3x^2-4$
Don't stop! ✓
 $6x^4+5x^2-4$ ✓

5

4. Simplify $(3x-4y)^2$
 $9x^2-16y^2$

1

factor the following:

5. Completely factor:

$x^2+7x+12$ P12 S-9
 $(x+4)(x+3)$

5

6. Completely factor:

$30a^3b^4+20a^4b^3$
 $10a^3b^3(3b)+(2a)$

4

36
4
64

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\frac{x^3}{y}$$



8. Simplify $(2x^{-4})^3$

$$-4 \cdot -4 = -16$$
$$16 \cdot -4 = -64$$
$$8x^{-64}$$

2

9. Solve for x:

$$8x - 2 = 6x - 10$$
$$+2 \quad +2$$
$$8x = 6x - 8$$
$$-6x \quad -6x$$

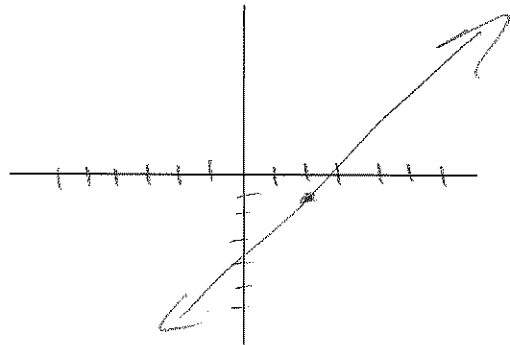
$$\frac{2x}{2} = \frac{-8}{2}$$

$$x = -4$$



10. Sketch the graph of $y = 2x - 1$

2



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

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b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

04

$\frac{33}{50}$

NAME Margot Torres

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$$(5-10)-(3-4)$$

$$-5+1$$

$$2-3[-4]$$

$$2+12$$

$$\boxed{14}$$

2. $4(7x+3)-(x+2)$

$$(28x+12)-x+2$$

$$-x+2$$

$$\boxed{27x+14}$$

3

3. Multiply: $(2x^2-1)(3x^2+4)$

$$6x^4+8x^2-3x^2-4$$

$$\boxed{6x^4+5x^2-4}$$

5

4. Simplify $(3x-4y)^2$

$$(3x-4y)(3x-4y)$$

Yes $9x^2-12xy-12xy+16y^2$

No $\boxed{9x^2+16y^2}$

3

factor the following:

5. Completely factor:

$$x^2+7x+12$$

$$1 \quad 7 \quad 12$$

8

6. Completely factor:

$$30a^3b^4+20a^4b^3$$

$$30 \quad 20$$

8

(over)

7. Simplify $\frac{x^8 y^2}{x^5 y^4}$

$$\frac{x^3}{y^2}$$

5

8. Simplify $(2x^{-4})^3$

$$2x^{-12}$$

3

9. Solve for x:

$$\begin{array}{r}
 8x - 2 = 6x - 10 \\
 +2 \quad +2 \\
 \hline
 8x = 6x - 8 \\
 -6x \quad -6x \\
 \hline
 2x = -8 \\
 \frac{2x}{2} = \frac{-8}{2} \\
 \boxed{x = -4}
 \end{array}$$

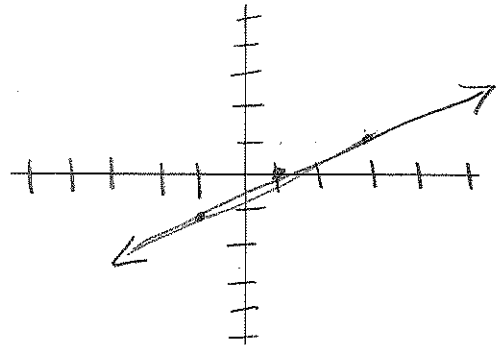
5

10. Sketch the graph of $y = 2x - 1$

$$\begin{aligned}
 y &= 2(0) - 1 \\
 y &= -1
 \end{aligned}$$

$$\begin{aligned}
 y &= 2(1) - 1 \\
 y &= 2 - 1 \\
 y &= 1
 \end{aligned}$$

x	y
0	-1
1	1



f

How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

- a. I passed MAT 090 at Front Range Community College with a C or better.
- b. I placed in through the assessment test I took at Aims Assessment Center
- c. Other reason _____

22
50

NAME Anna Carnegie

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

-5 -1
 $-[-6] = 6$
2

2. $4(7x+3)-(x+2)$

$28x+12 - x+2$
 $27x+14$
3

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 - 4$
Distribute
1

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$
 $9x^2 - 12xy - 12xy + 16y^2$
 $9x^2 - 24xy + 16y^2$
2

factor the following:

5. Completely factor:

$x^2+7x+12$ $6 \cdot 2$ $12 \cdot 1$ $4 \cdot 3$

$(x+4)(x+3)$
 $4x$
 $3x$
 $7x$
5

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$(2a^2b^2)(a)(b)$ $(a^2b^2)(3a)(b)$
P

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\frac{x^3 y^{-1}}{5}$$

8. Simplify $(2x^{-4})^3$

$$\frac{2x}{0}$$

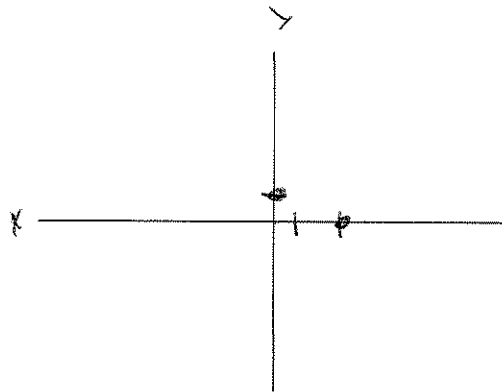
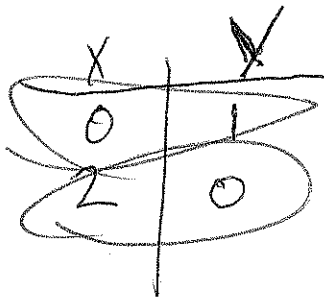
9. Solve for x:

$$\begin{array}{r} 8x - 2 = 6x - 10 \\ -6x \quad -6x + 2 \\ \hline 2x = -8 \\ \hline x = -4 \end{array}$$

$$x = 4$$

3

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

45
50

NAME Josh Aguilar

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$$\begin{array}{r} -5 - 3 - 4 \\ -2 \\ 2-3(-4) \\ 2-(-12) \\ \textcircled{14} \end{array}$$

2. $4(7x+3)-(x+2)$

$$\begin{array}{r} (28x+12)-(x+2) \\ \textcircled{27x+10} \\ 5 \end{array}$$

3. Multiply: $(2x^2-1)(3x^2+4)$

$$\begin{array}{r} 6x^4 + 8x^2 - 3x^2 - 4 \\ \textcircled{6x^4 + 5x^2 - 4} \\ 5 \end{array}$$

4. Simplify $(3x-4y)^2$

$$\begin{array}{r} (3x-4y)(3x-4y) \\ 9x^2 - 12xy - 12xy + 16y^2 \\ \del{4x^2 - 24xy} \\ \textcircled{9x^2 + 16y^2 - 24xy} \\ \text{or } 5 \end{array}$$

factor the following:

5. Completely factor:

$$x^2 + 7x + 12$$

$$\begin{array}{r} (x+4)(x+3) \\ 5 \end{array}$$

6. Completely factor:

$$30a^3b^4 + 20a^4b^3$$

$$\begin{array}{r} 10(3 \\ 10a^3b^3(3b+2a) \\ 5 \end{array}$$

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$x^3 y^{-1}$
 $\frac{x^3}{y}$

8. Simplify $(2x^{-4})^3$

$6x^{-12}$
 $\frac{6}{x^{12}}$ 3

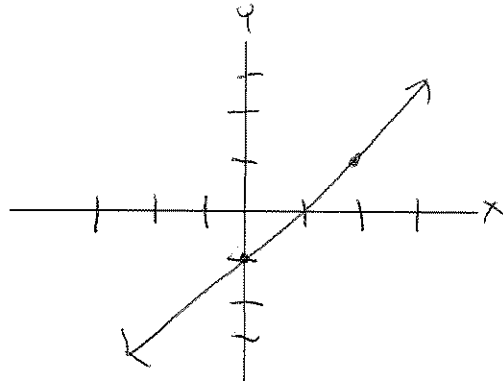
9. Solve for x:

$$\begin{aligned} 8x - 2 &= 6x - 10 \\ +2 &\quad +2 \\ \hline 8x &= 6x - 8 \\ -6x &-6x \\ \hline 2x &= -8 \\ \frac{2x}{2} &= \frac{-8}{2} \end{aligned}$$

$x = -4$

10. Sketch the graph of $y = 2x - 1$

2



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

- a. I passed MAT 090 at Aims with a C or better.
- b. I placed in through the assessment test I took at Aims Assessment Center
- c. Other reason _____

22
50

NAME Samantha Hohler

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3 \left[\begin{matrix} 5 & 3-4 \\ -5+1 \\ 6 \end{matrix} \right]$
 $-1[6]$
 -6

2. $4(7x+3)-(x+2)$

$28x+12 -x-2$

$28x+12 -x-2$
 $+x+2 +x+2$
 $27x+10$

$27x+10$

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^2 + 8x^2 - 3x^2 - 4$
combine
Get a pencil
4

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$9x^2 - 12xy - 12xy + 16y^2$

$9x^2 - 24xy + 16y^2$

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

~~$x^2 + 7x + 12$~~

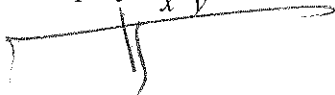
6. Completely factor:

$30a^3b^4 + 20a^4b^3$

~~$30a^3b^4 + 20a^4b^3$~~

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$



8. Simplify $(2x^{-4})^3$

$2x^{-12}$

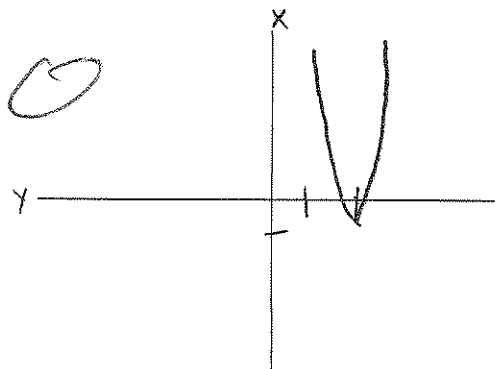
1

9. Solve for x:

$$\begin{array}{r}
 8x - 2 = 6x - 10 \\
 +2 \quad +2 \\
 \hline
 8x = 6x - 8 \\
 -6x \quad -6x \\
 \hline
 2x = -8 \\
 \hline
 \frac{2}{2} \quad \frac{2}{2} \\
 \hline
 x = -4
 \end{array}$$



10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason I transferred schools in high school and was never able to finish algebra 2.

22
50

NAME Taylor Richardson

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$
 $-1[(5-10)-(3-2^2)]$
 $-1[(-5)-(-1)]$
 $-1(-5)-(-1)$
 $(5)-(-1)$

2

2. $4(7x+3)-(x+2)$
 $(28x+12)-(x+2)$
 $= ?$
 1

3. Multiply: $(2x^2-1)(3x^2+4)$
 $5x^4 + 8x^2 - 3x^2 - 4$
 $5x^4 + 5x^2 - 4$

$(2)(3) = 6 \neq 5$

3

4. Simplify $(3x-4y)^2$
 $3x^2 - 4y^2$
 $9x^2 - 12y^2$
 1

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

don't understand or forget what completely factor means



7. Simplify $\frac{x^8 y^3}{x^5 y^4} = \frac{x^3}{y}$

5

8. Simplify $(2x^{-4})^3$

$8x^{-12}$

3

$$\frac{12}{4} = 3$$

9. Solve for x:

$$\begin{array}{r} 8x - 2 = 6x - 10 \\ -6x \quad -6x \end{array}$$

$$\begin{array}{r} 2x - 2 = -10 \\ +2 \quad +2 \end{array}$$

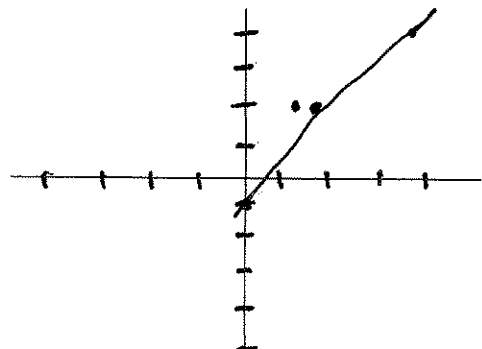
$$\begin{array}{r} 2x = -8 \\ \underline{2} \quad \underline{2} \\ x = -4 \end{array}$$

3

10. Sketch the graph of $y = 2x - 1$

~~2~~

4



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason passed 090 at FRCC with a B

$$\frac{24}{50}$$

NAME Felisa Gomez

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$$2-3(-5)-(3-1)$$

$$-1(-5)-3-1$$

$$5+1$$

$$6$$

1

2. $4(7x+3)-(x+2)$

$$(28x+12)-x+2$$

$$27x+10$$

2

3. Multiply: $(2x^2-1)(3x^2+4)$

$$6x^4 + 8x^2 - 3x^2 - 4$$

$$6x^4 + 5x^2 - 4$$

3

4. Simplify $(3x-4y)^2$

$$(3x-4y)(3x-4y)$$

$$9x^2 + 12xy - 12xy + 16y^2$$

$$9x^2 + 16y^2$$

3

factor the following:

5. Completely factor:

$$x^2 + 7x + 12$$

$$-7x \quad 7x$$

$$-7x + 12$$

$$\frac{-7x + 12}{-7}$$

$$x = \frac{12}{-7}$$

0

6. Completely factor:

$$30a^3b^4 + 20a^4b^3$$

$$20a^4b^3$$

$$30a^3b^4 + 20a^4b^3$$

$$30a^3b + 20a^4$$

?

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\frac{x(8-5)}{y(4-3)}$$

$$\frac{x^3}{y^1}$$

4

8. Simplify $(2x^{-4})^3$

$$(2x^{-4})(2x^{-4})(2x^{-4})$$

$$(4x^{-8})(2x^{-4})$$

$$8x^{-12}$$

2

9. Solve for x:

$$8x - 2 = 6x - 10$$

$$+2 \quad +2$$

$$\frac{8x - 6x}{2} = \frac{-8}{2}$$

$$x = \frac{6x}{8} - 8$$

$$8x = 6x - 8$$

$$\frac{8x - 6x}{2} = \frac{-8}{2}$$

$$x = -4$$

10. Sketch the graph of $y = 2x - 1$

$$2x - 1$$

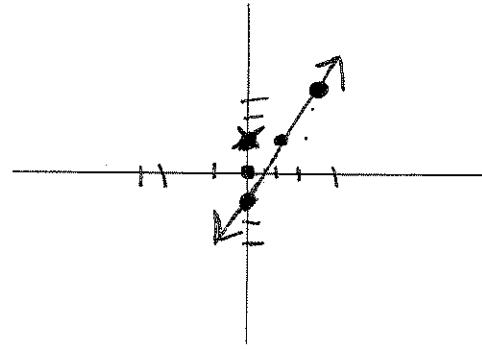
$$2(0) - 1 = -1$$

$$2(1) - 1 = 1$$

$$2(2) - 1 = 3$$

x	
0	-1
1	1
2	3

4



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

- a. I passed MAT 090 at Aims with a C or better.
- b. I placed in through the assessment test I took at Aims Assessment Center
- c. Other reason _____

$\frac{9}{50}$

NAME Darshanna P

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$
 $2-3[-15+30-3+4]$
 $44-3+4$
 45
 ↓

2. $4(7x+3)-(x+2)$
 $28x+12-x-2$
 $27x+10$
 ↵

3. Multiply:

$(2x^2-1)(3x^2+4)$
 $-3x^2-4+6x^2+8x^2$
 $3x^2-4+8x^2$
 $11x^2-4$
 3

4. Simplify $(3x-4y)^2$
 $3x^2-4y^2$
 0

factor the following:

5. Completely factor:

$\frac{x^2+7x+12}{x}$
 $x+7+12$
 $x+19$ 0

6. Completely factor:

$30a^3b^4+20a^4b^3$
 0

(over)

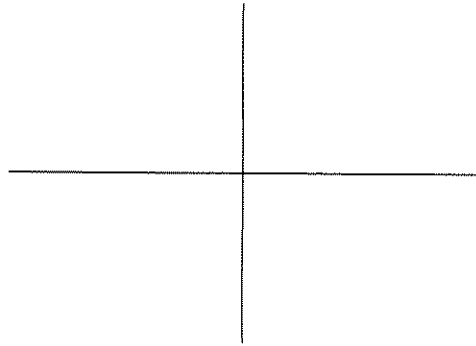
Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

8. Simplify $(2x^{-4})^3$
 $(2x^{-4})^3$

9. Solve for x: $8x - 2 = 6x - 10$

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

0

27
—
50

NAME Robert [unclear]
Legibility!

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(5)-(3-4)]$
 $[5-1]$
 $2-3[4]$
 $-1[4]$
 -4

2

2. $4(7x+3)-(x+2)$

$(28x+12)-(x+2)$
 $27x+10$

3

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^2 - 3x^2 - 4$
 $6x^4 + 5x^2 - 4$

5

4. Simplify $(3x-4y)^2$

9



factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$(x+4)(x+3)$
x

x^2	$3x$
$4x$	12

x 3

5

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

~~_____~~

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$= \frac{x^3}{y}$$

5

8. Simplify $(2x^{-4})^3$

$$6x^{-12}$$

0

9. Solve for x:

$$8x - 2 = 6x - 10$$

$$8x = 6x - 8$$

$$-6x \quad -6x$$

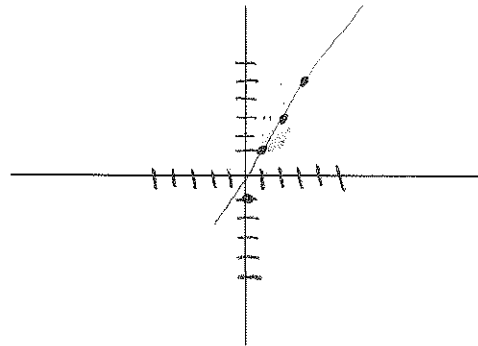
$$\frac{2x}{2} = \frac{-8}{2}$$

$$x = -4$$

5

10. Sketch the graph of $y = 2x - 1$

2



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{23}{50}$

NAME Hayla Cure

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(5)-(3-4)]$
 $2-3[5-1]$
 $1 \cdot 4$
 $= 4$

2

2. $4(7x+3)-(x+2)$

subtract
not multiply

$$\begin{aligned} & (28x+12) - (x+2) \\ & 28x^2 - 5(6x) + 12x - 24 \\ & \boxed{26x^2 - 69x - 24} \end{aligned}$$

1

3. Multiply: $(2x^2 - 1)(3x^2 + 4)$

$$\begin{aligned} & 6x^4 + 8x^2 - 3x^2 - 4 \\ & \boxed{6x^4 + 5x^2 - 4} \end{aligned}$$

5

4. Simplify $(3x - 4y)^2$

$$\begin{aligned} & (3x-4y)(3x-4y) \\ & 9x^2 - 12xy - 12xy + 16y^2 \\ & \underline{9x^2 - 24xy + 16y^2} \\ & \text{woo-hoo!} \end{aligned}$$

5
Not many got this!

factor the following:

5. Completely factor:

$x^2 + 7x + 12 =$

$$\begin{aligned} & -12 \\ & \boxed{x^2 + 7x - 12} \end{aligned}$$

0

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$$\boxed{50a^7b^7}$$

0

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$x^3 y^1$

3

8. Simplify $(2x^{-4})^3$

$2x^{-12}$

2

9. Solve for x:

$8x - 2 = 6x - 10$
+2 +2

$8x - 2 = 6x - 10$
+16 +10

$8x = 6x - 8$
 $-6x -6x$

$8x + 6 = 6x$
 $-6x -6x$

$\frac{2x}{2} = \frac{-8}{2}$

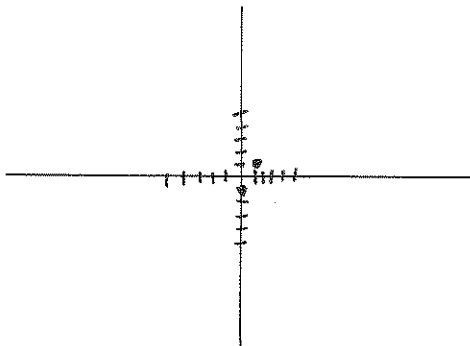
$8 = -2x$
 $\frac{8}{-2} = \frac{-2x}{-2}$
 $-4 = x$

$x = -4$

5

10. Sketch the graph of $y = 2x - 1$

0



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

- a. I passed MAT 090 at Aims with a C or better.
- b. I placed in through the assessment test I took at Aims Assessment Center
- c. Other reason _____

$\frac{17}{50}$

NAME Nasandal Jewberry*

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3(\overset{5-10}{-5}-\overset{3-4}{-1})$
 $2-3-5+1$
 $-1-5+1$
 $-6+1$
 -5

2

2. $4(7x+3)-1(x+2)$
 $(28x+12)-(x+2)$
 $27x+10$

5

3. Multiply: $(2x^2-1)(3x^2+4)$

$(2x^2)(3x^2) (-1)(4)$
 $6x^2-4$

2

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

1

factor the following:

5. Completely factor:

$x^2+7x+12$

? 0
~~11~~

6. Completely factor:

$30a^3b^4+20a^4b^3$

?
~~11~~

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^2 y^3}{x^5 y^4}$

$\frac{x^2 y^3}{x^5 y^4}$

D

8. Simplify $(2x^{-4})^3$

$(2x^{-4})(2x^{-4})(2x^{-4})$

= ?

v

9. Solve for x:

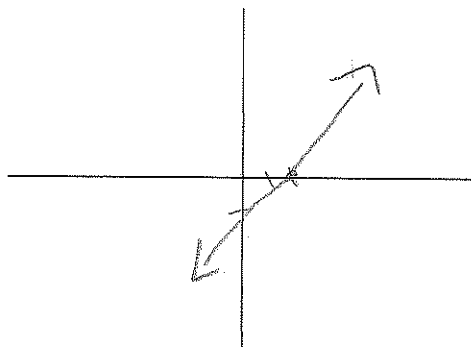
$8x - 2 = 6x - 10$

$\frac{2x}{2} = \frac{-8}{2}$

$x = -4$

"x = -4", not "x - 4"

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

37
50

*

NAME ^{Marie} Yvonne Cortez
Marie

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$-1[-5-7]$
 $-1(-12) = 12$

1

2. $4(7x+3)-(x+2)$

$28x+12-(x+2)$
 $27x+10$

5

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^2 - 3x^2 - 4$
 $6x^4 + 5x^2 - 4$

4

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$
 $9x^2 - 24xy + 16y^2$

5
woo-hoo!

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$x(x+7)+12$

(

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$10a^3b^3(3b+2a)$

5

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$x^3 y^{-1}$
 $\frac{x^3}{y}$ 5

8. Simplify $(2x^{-4})^3$

$8x^{-12}$
 5

9. Solve for x:

$8x - 2 = 6x - 10$

$2x = 8$

$x = -4$

5

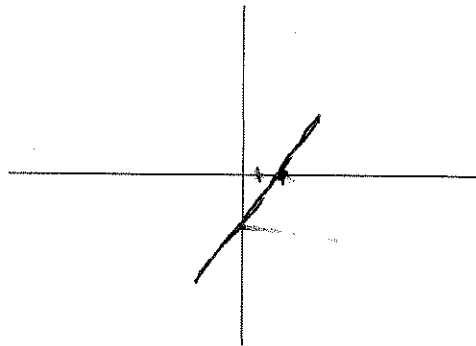
10. Sketch the graph of $y = 2x - 1$

FYI

I don't understand graphing



$y = -1$
 $x = 2$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{14}{50}$

NAME DIANA FORTUNATO

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$$2-3[-5+1]$$
$$2-3-4$$
$$=5$$

2

2. $4(7x+3)-(x+2)$

$$28x+12-x+2$$
$$28x-x+12+2$$
$$27x+14$$

3

3. Multiply: $(2x^2-1)(3x^2+4)$

$$6x^4+8x^2-3x-4$$

2

4. Simplify $(3x-4y)^2$

$$9x^2-16y^2$$

1

factor the following:

5. Completely factor:

$x^2+7x+12$

~~11~~

6. Completely factor:

$30a^3b^4+20a^4b^3$

~~11~~

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4} = x^{13} y^7$

8. Simplify $(2x^{-4})^3$

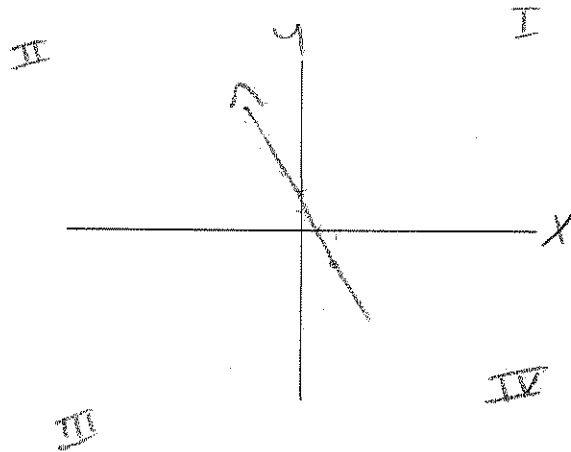
9. Solve for x:

$$8x - 2 = 6x - 10$$

$$\begin{aligned} 8x &= 6x - 8 \\ -6x &= -6x \\ \hline -2x &= -8 \\ \frac{-2x}{-2} &= \frac{-8}{-2} \\ x &= 4 \end{aligned}$$

10. Sketch the graph of $y = 2x - 1$

x	y
0	-1
1	2



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{33}{50}$

NAME Helsey Barher

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$
 $-1(5-10) - (3-2^2)$
 $-5+10 - (3+2^2)$

$5+3$

2

$8+2^2$

$8+4 = 12$

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^2 - 3x^2 - 4$

$6x^4 + 5x^2 - 4$

5

2. $4(7x+3) - (x+2)$

$28x+12 - x+2$
 $27x+14$

2

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$9x^2 - 12xy - 12xy - 8y^2$

$9x^2 - 24xy - 8y^2$

5 woo-hoo!

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$(x+4)(x+3)$

5

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$10a^3 + 20a^4 + b^4 + b^3$

$5a^3(6+4a) b^3(b)$

$(5a^3 + b^3)(6+4a+b^3)$

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4} = \frac{x^3}{y}$

8. Simplify $(2x^{-4})^3$

$(2x^{-4})^3$
 $2x^{-12}$
3

9. Solve for x: $8x - 2 = 6x - 10$

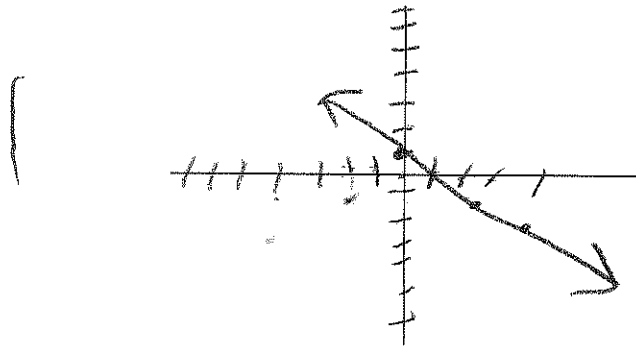
$8x - 2 = 6x - 10$
 $-6x \quad -6x$

$2x - 2 = -10$
 $+2 \quad +2$

$2x = -8$

$x = -4$

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

43
50

☺

NAME Kyle McCarty

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(-5)-(-1)]$
 $-1(-4)$
 -4

3

2. $4(7x+3)-(x+2)$

$28x+12-(x+2)$

$27x+10$

5

3. Multiply: $(2x^2-1)(3x^2+4)$

$12x^4+8x^2-3x^2-4$

$12x^4+5x^2-4$

5

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$

$9x^2-12xy-12xy+16y^2$

$9x^2+16y^2-24xy$

5 woooo-hoo!

factor the following:

5. Completely factor:

$x^2+7x+12$

$(x+3)(x+4)$

$x^2+4x+3x+12$

✓
7

5

6. Completely factor:

$30a^3b^4+20a^4b^3$

(Beats)(Me) Good start.

$10ab(3a^2b^3+2a^3b^2)$

2

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\boxed{x^3 y^{-1}}$$

OK
5

8. Simplify $(2x^{-4})^3$

~~$\boxed{2x^{-1}}$~~
1

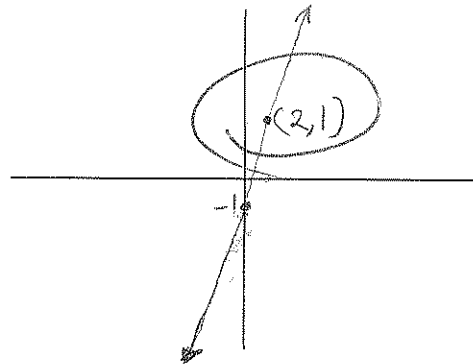
9. Solve for x:

$$\begin{aligned} 8x - 2 &= 6x - 10 \\ +2 \quad -6x & \\ \hline 2x &= -12 \\ \frac{2}{2} \quad \frac{2}{2} & \\ \hline \boxed{x = 6} \end{aligned}$$

3

10. Sketch the graph of $y = 2x - 1$

3



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{35}{50}$

NAME Adrian Johnson

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$2-3[(-5)-(-1-4)]$

$2-3[(-5)+(4)]$

$2-3(-1)+1$
 $2+3+1$
6

2. $4(7x+3)-1(x+2)$

$28x+12-x-2$

$27x+10$

5

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 - 4x^2$

/

Distribute

4. Simplify $(3x-4y)^2$

$(3^2)(x^2) - (4^2)y^2$

$9x^2 + 16y^2$

/

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$3+4=7$

$(x+3)(x+4)$

$3 \cdot 4 = 12$

OK

5

$x \cdot x = x^2$

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

$10a^3b^3(3b+2a)$

5

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$ $\frac{y^{-1}}{1}$ $\frac{1}{y^1}$

$$\frac{x^3}{y}$$

5

8. Simplify $(2x^{-4})^3$

$$\frac{8}{x^{12}}$$

5

9. Solve for x:

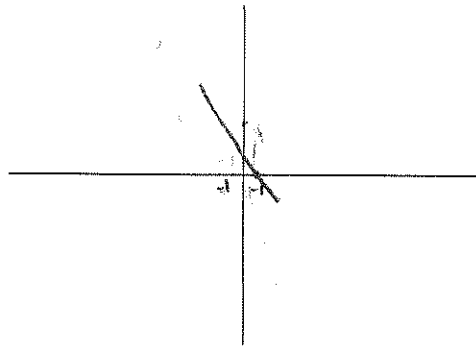
$$8x - 2 = 6x - 10$$

$$2x = -8$$

$$x = -4$$

5

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

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b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{23}{50}$

NAME BRECKIN CURTIS

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$(5) \rightarrow (3-4)$
 $5 - (-1)$

$2-3(4)$

$8-12 = -4$

2

2. $4(7x+3)-(x+2)$

$28x+12-x-2$

$27x+10$

5

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^2 - 3x^2 - 4$

$6x^4 + 5x^2 - 4$

5

4. Simplify $(3x-4y)^2$

$3x^2 - 4y^2$

/

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$(x+3)(x+4)$

5

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

~~$(5a^3 + 4b^4)(6a^3 + 5b^3)??$~~

/

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

~~_____~~

8. Simplify $(2x^{-4})^3$

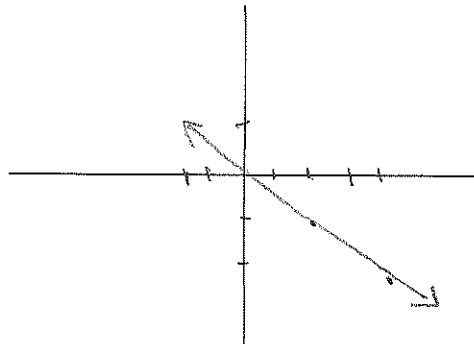
$2x^{-1}$
0

9. Solve for x: $8x - 2 = 6x - 10$

$8x = 6x + 12$
 $2x = 12$
 $x = 6$ 3

10. Sketch the graph of $y = 2x - 1$

1



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

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b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

$\frac{14}{50}$

NAME Trevor Lucas

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$
 $(-5) - (-1^2)$
 $2-3(-6)$
 $-1(-6)$
 6^2
 36

2. $4(7x+3)-(x+2)$

$28x+12-x+2$
 $27x+14$
3

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^2 - 3x^2 - 4$
 $11x^2 - 4$
2

4. Simplify $(3x-4y)^2$

$9x^2 - 16y^2$
0

factor the following:

5. Completely factor:

~~$x^2 + 7x + 12$~~
?

6. Completely factor:

~~$30a^3b^4 + 20a^4b^3$~~
?

(over)

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

8. Simplify $(2x^{-4})^3$

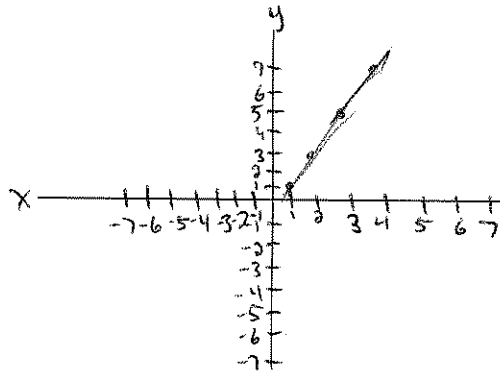
$\frac{8}{x} \cdot -64$

9. Solve for x:

$8x - 2 = 6x - 10$
 $-6x \quad -6x$

 $2x - 2 = -10$
 $\frac{2x}{2} = \frac{-8}{2}$
 $x = -4$

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

- a. I passed MAT 090 at Aims with a C or better.
- b. I placed in through the assessment test I took at Aims Assessment Center
- c. Other reason _____

I took stats here at Aims and passed with a B before trying to take College Algebra. I have not taken MAT 090 or 045. My accuplacer test said I should be in 090, but my math ACT was a 20. I need to take 099 before attempting 121 again. I tried last semester.

50

NAME Carey McCammon

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are NOT allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$$2-3(15-10^2-30+20^2)$$

$$-1(15-10^2-30+20^2)$$

$$-15+10^2+30-20^2$$

$$15-10^2$$

1

2. $4(7x+3)-(x+2)$

$$(28x+12)-(4x+8)$$

$$24x+4$$

2

3. Multiply: $(2x^2-1)(3x^2+4)$

$$6x^4 + 8x^2 - 3x^2 - 4$$

combine

4

4. Simplify $(3x-4y)^2$

$$6x-8y$$

0

factor the following:

5. Completely factor:

$$x^2+7x+12$$

$$7x^3+12$$

0

6. Completely factor:

$$30a^3b^4+20a^4b^3$$

$$50a^7+b^7$$

0

(over)

Page 2 MATH SKILLS

7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

$$\frac{x^3}{y}$$

5

8. Simplify $(2x^{-4})^3$

$$6x^{-12}$$

3

9. Solve for x:

$$\begin{array}{r} 8x - 2 = 6x - 10 \\ +2 \quad -2 \\ \hline 8x = 6x - 8 \\ -6x \quad -6x \\ \hline 2x = -8 \end{array}$$

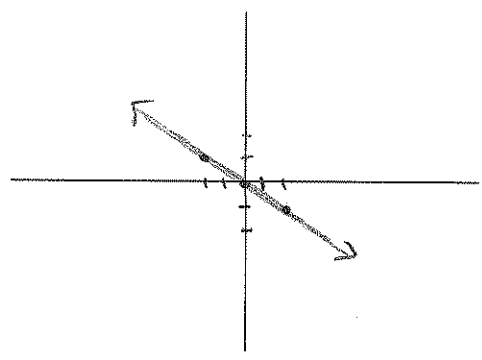
$$\frac{2x}{2} = \frac{-8}{2}$$

$$x = -4$$

~~A~~
3

10. Sketch the graph of $y = 2x - 1$

1



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

12
~~11~~

~~25~~
~~20~~
50

NAME William "Jike" Malone

MATH SKILLS for MAT 099

Work the following on this paper. Show your work when possible. Calculators are **NOT** allowed.

Simplify the following:

1. $2-3[(5-10)-(3-2^2)]$

$[-5 + (-1)]$
 $(-1)(-4)$
4 2

2. $4(7x+3)-(x+2)$

$28x + 12 - x - 2$
 $27x + 10$
5

3. Multiply: $(2x^2-1)(3x^2+4)$

$6x^4 + 8x^2 - 3x^2 - 4$
 $6x^4 + 5x^2 - 4$
5

4. Simplify $(3x-4y)^2$

$(3x-4y)(3x-4y)$
 $9x^2 - 12xy - 12xy + 16y^2$
 $9x^2 - 24xy + 16y^2$
3

factor the following:

5. Completely factor:

$x^2 + 7x + 12$

$(x+4)(x+3)$
5

6. Completely factor:

$30a^3b^4 + 20a^4b^3$

_____ | _____

(over)

Page 2 MATH SKILLS

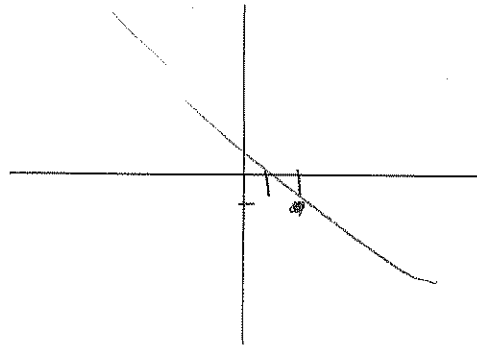
7. Simplify $\frac{x^8 y^3}{x^5 y^4}$

8. Simplify $(2x^{-4})^3$

9. Solve for x: $8x - 2 = 6x - 10$

$$\frac{2x = -8}{2} \\ x = -4$$

10. Sketch the graph of $y = 2x - 1$



How did you get placed into MAT 099 *Intermediate Algebra*? Check one.

a. I passed MAT 090 at Aims with a C or better.

b. I placed in through the assessment test I took at Aims Assessment Center

c. Other reason _____

5/2