

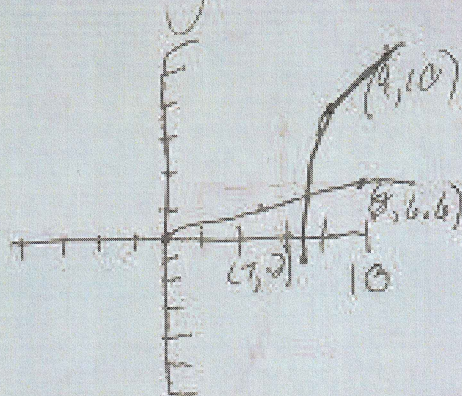
Lear

MAT 1340

Emma L.

15
50

1) $g(x) = 5\sqrt{3x-21} - 2$



dark/
low quality image,
hard to read!

$f(x) = \sqrt{x}$

Hor. Shift = right 7 units

Ver. Shift = down 2 units

Ref. Over $x = \text{None}$

Vert. Stretch = Stretch

$g(x)$	y
7	-2
8	6.6
9	10.2

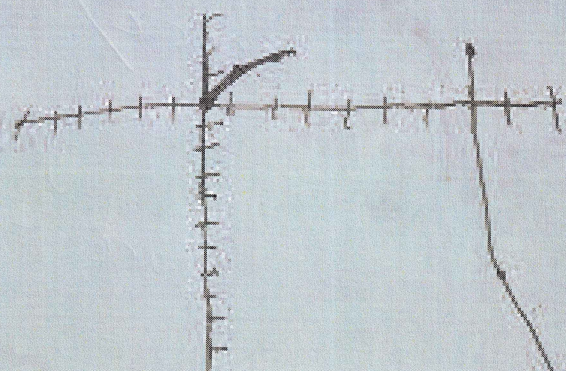
$f(x)$	y
0	0
1	1
2	1.4

+1.5

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Emma L

2) $g(x) = -5 - \sqrt{3x-2} + 2$



no labels

Should be 5 steps

in 5 drawings

$f(x) = \sqrt{x}$

hor. shift = right 7 units

ver. shift = up 2 units

ref. over = x axis ✓

ver. stretch = stretched ✓

$g(x)$	y
7	2
8	-6.6
9	-10.2

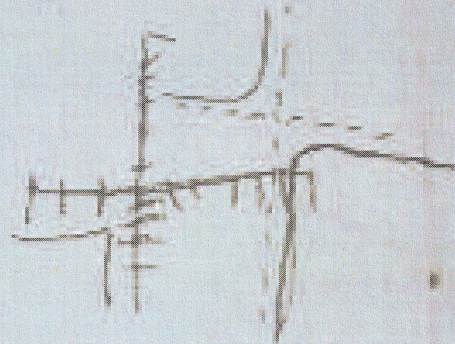
$f(x)$	y
0	0
1	1
2	1.4

+1.5

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$$4.) g(x) = \frac{3}{(-2x+8)^3} + 5$$



Can you guess
what I'm thinking
here?

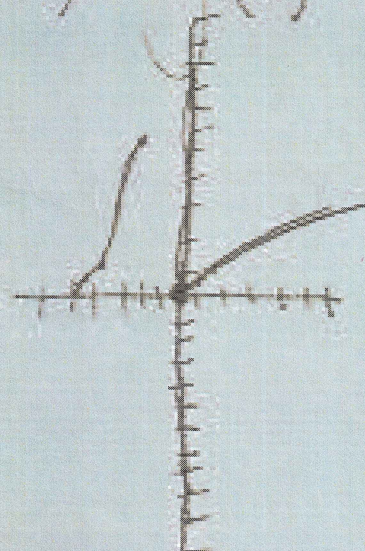
$$f(x) = \frac{1}{x^3}$$

hor. Shift = right 4 units
ver. Shift = up 5 units
ref. over x axis = none
Ver. Stretch = stretched ✓

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Emma L

$$3) \quad g(x) = 5\sqrt{-3x-21} - 11$$



no labels

$$f(x) = \sqrt{x}$$

hor. shift = left 7 units
 ver. shift = down 11 units
 ref. over x axis = None x
 ver. stretch = stretched ✓

$g(x)$	y
-9	1.2
-8	-2.3
-7	-11

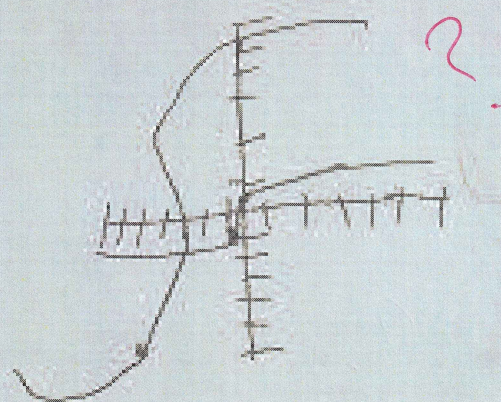
$f(x)$	y
0	0
1	1
2	1.3

+1.5

MAT
1390

Emma L.

$$5) \quad g(x) = 5\sqrt{3x+21} - 6$$



$$f(x) = \sqrt{x}$$

hor. Shift = left 7 units

ver. Shift = down 6 units

ref. Over $x = \text{None}_x$

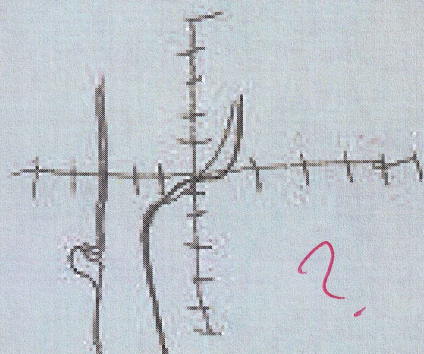
ver. Stretch = stretched

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$$6.) g(x) = 5(3x + 2)^5 - 6$$



$$f(x) = x^5$$

hor. shift = left 7 units

ver. shift = down 6 units

ref. over x = None

ref. over y = None

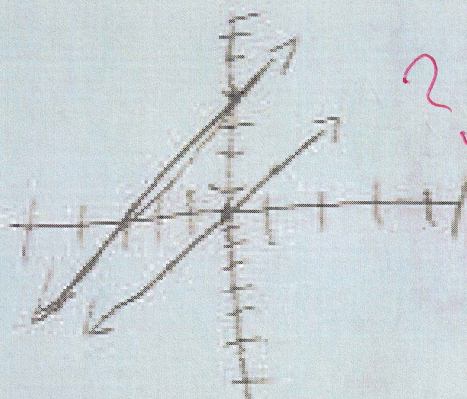
Ver. Stretch = stretched

+1.5

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$$7) g(x) = 3(x+5) - 7$$



is that all?

$$f(x) = x$$

Shift = 8 units up

$g(x)$	y
0	8
1	11
2	14

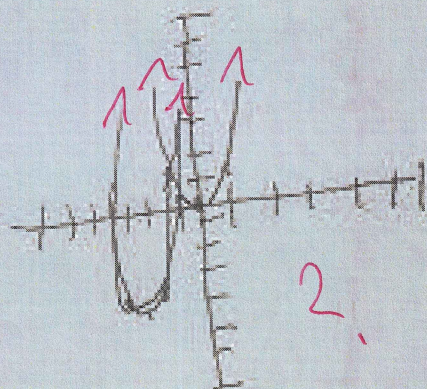
$f(x)$	y
0	0
1	1
2	2

+1.5

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Emma L.

8.) $g(x) = 3(x+5)^2 - 7$



$f(x) = x^2$

hor shift = left 5 units ✓

ver. shift = down 7 units ✓

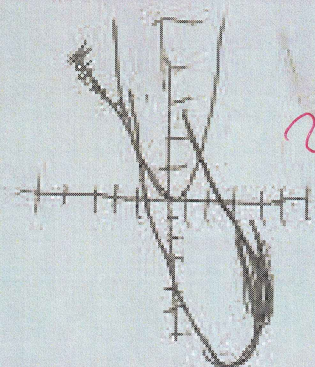
+1.5

MAT

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Emma L

9.) $g(x) = x^2 - 4x - 7$



??

$f(x) = x^2$

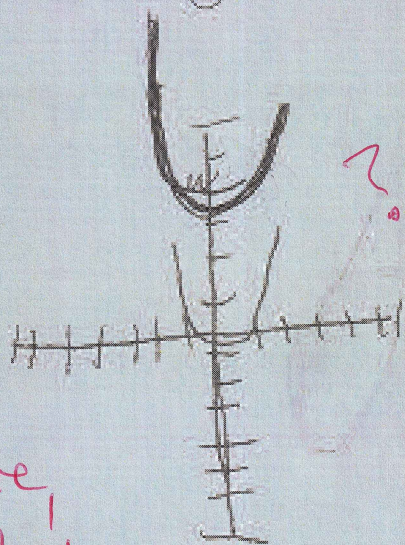
hor. Shift = right 2 units
ver. Shift = down 11 units

+1.5

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Emma L.

10.) $g(x) = 4x^2 + 5x + 17$



need to
get this
to a ...
" $(x \pm N)^2$ " statement

In the future,
images this dark
will be asked to
be resubmitted at a
better quality.

$$f(x) = x^2$$

hor. Sh. ft = left 0.625 units

Ver. Sh. ft = up 15.438 units

+1.5