

MAT 121 - College Algebra §G-11

<http://www.pearsonmylabandmastering.com/northamerica/>

Textbook
Options!

Osteogenesis Imperfecta

Crusty but soft heart.

BS @ LCSC (Lewiston, ID)

M.S., Ph.D @ UI (Moscow, ID)

Quizzes - 10%

Homework - 10%

Tests - 60% No makeups. Final Replacem't.

Final - 20% Comprehensive. Last Material focus.

Final Replaces lowest test.

Note to self: Old Dugopolski?

FINAL: Wed, 12/3, 7:10-9:00am

Today/Wed - Intermediate Algebra
Final.

See Course Website.

Paper with lines sucks for math

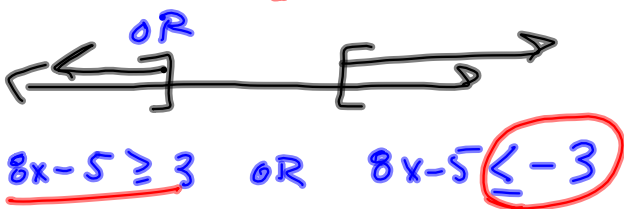
$$\frac{\sqrt{\frac{x^2 - 7x + 2}{2x - 5}}}{x + 5}$$

Style is conveying
thought process clearly

A narrative of
your problem-solving.

Think Better.
Writing is key.

a. (10 pts) $|8x - 5| \geq 3$



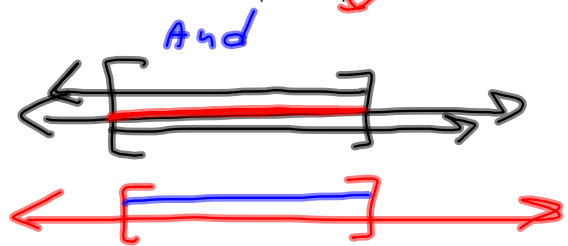
$8x - 5 \geq 3$ OR $8x - 5 \leq -3$

$8x \geq 8$ NEED

$\frac{8x}{8} \geq \frac{8}{8}$ optional step

$x \geq 1$ NEED

b. (10 pts) $|8x - 5| \leq 3$



$-8x \geq 16$ $-8x \geq 16$

$\frac{-8x}{-8} \geq \frac{16}{-8}$ $x \leq -2$

$x \leq \frac{16}{-8}$

a. (10 pts) $|8x - 5| \geq 3$

$8x - 5 \geq 3$ \star OR $8x - 5 \leq -3$

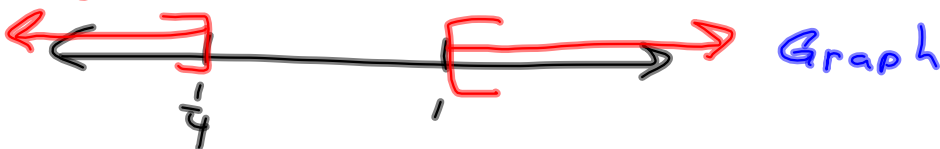
$\frac{+5}{8} = \frac{+5}{8}$
 $8x \geq 8$ \star OR $8x \leq 2$

$\frac{8x}{8} \geq \frac{8}{8}$ \star OR $x \leq \frac{1}{4}$

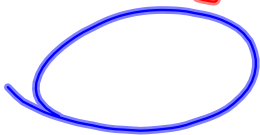
$x \geq 1$ \star

$\{x \mid x \geq 1 \text{ OR } x \leq \frac{1}{4}\}$ Set-builder.

"The set of all x such that $x \geq 1$ OR $x \leq \frac{1}{4}$ "



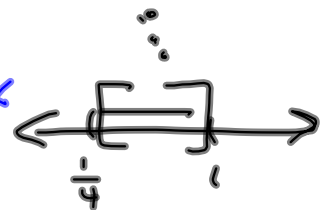
$(-\infty, \frac{1}{4}] \cup [1, \infty)$ Interval Notation \star



b. (10 pts) $|8x - 5| \leq 3$

Need $\{8x - 5 \leq 3 \text{ AND } 8x - 5 \geq -3\}$

$\frac{2}{8} = \frac{1}{4}$



$$4x^2 - 12x + 7 = 0$$

$$a = 4, b = -12, c = 7$$

$$b^2 - 4ac =$$

$$(-12)^2 - 4(4)(7)$$

$$144 - 112 = 32$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{12 \pm \sqrt{32}}{8} \text{ by Quadratic Formula, if}$$

I did it right.

Next Time: Work on the Intermediate Algebra Final. Critique Syllabus.

$$(4)(7) = 28$$

$$-12 = -11 - 1$$

$$= -10 - 2$$

$$= -9 - 3$$

$$= -8 - 4$$

$$= -7 - 5$$

$$=$$

11

20

27

32