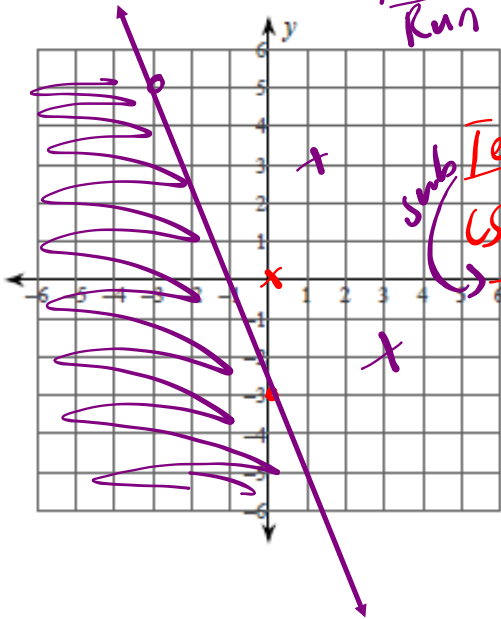


WARM-UP: Graph each of the following...

1) $y \leq -\frac{8}{3}x - 3$



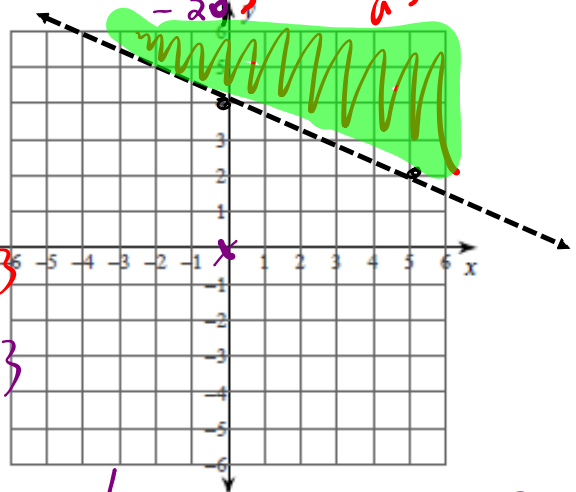
$y = -\frac{8}{3}x - 3$
 Rise Run $\frac{8}{-3}$
 y-int

sub Test (0,0)
 $LS \leq RS$

$0 \leq -\frac{8}{3}(0) - 3$
 $0 \leq -3$

Not a solution

2) $2x + 5y - 20 > 0$
 $2(0) + 5(0) - 20 > 0$
 $-20 > 0$



LS RS * Test original
 Not a solution

$2x + 5y - 20 = 0$

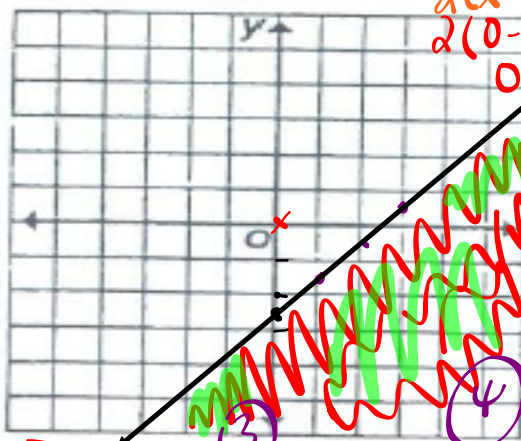
$5y = -2x + 20$

$y = -\frac{2}{5}x + 4$

HOMWORK...

Puzzle Worksheet - Graphing Linear Inequalities with Two Variables.pdf

10) $2(x - y) \geq 5$



~~Y All four quadrants; excludes boundary line.~~

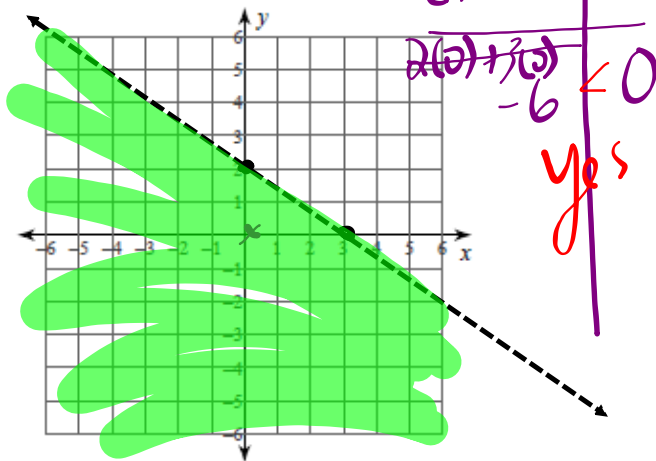
U Quadrants II, III, IV; includes boundary line.

A Quadrants I, III, IV; includes boundary line.

$$\begin{aligned}
 CS &\geq RS && 2(x - y) = 5 \\
 \frac{2(x - y)}{2} &\geq \frac{5}{2} && 2x - 2y = 5 \\
 2(0 - 0) &\geq 5 && -2y = -2x + 5 \\
 0 &\geq 5 && \frac{-2y}{-2} = \frac{-2x + 5}{-2} \\
 &&& y = \frac{1}{1}x - 2.5
 \end{aligned}$$

EXAMPLE #5...

$$2x + 3y - 6 < 0$$



$$2x + 3y - 6 = 0$$

$$3y = -\frac{2}{3}x + \frac{6}{3}$$

$$y = -\frac{2}{3}x + 2$$

EXAMPLE #4:

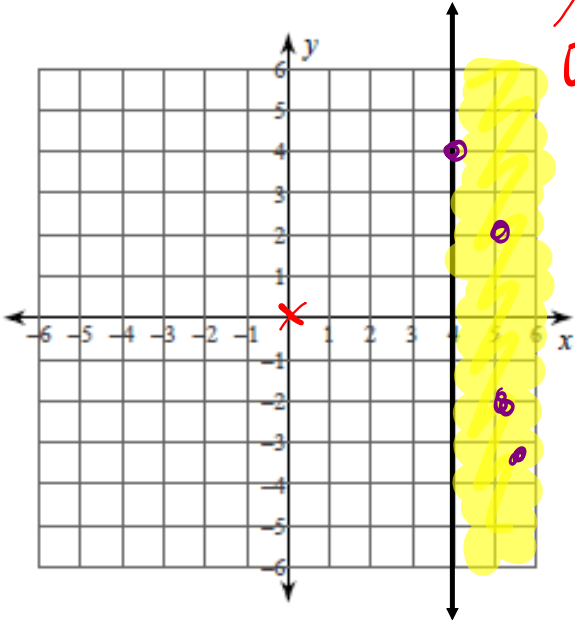
$x \geq 4$

$(0,0)$

$LS \geq 125$

x	4
$0 \geq 4$	NO

$x = 4$
vertical

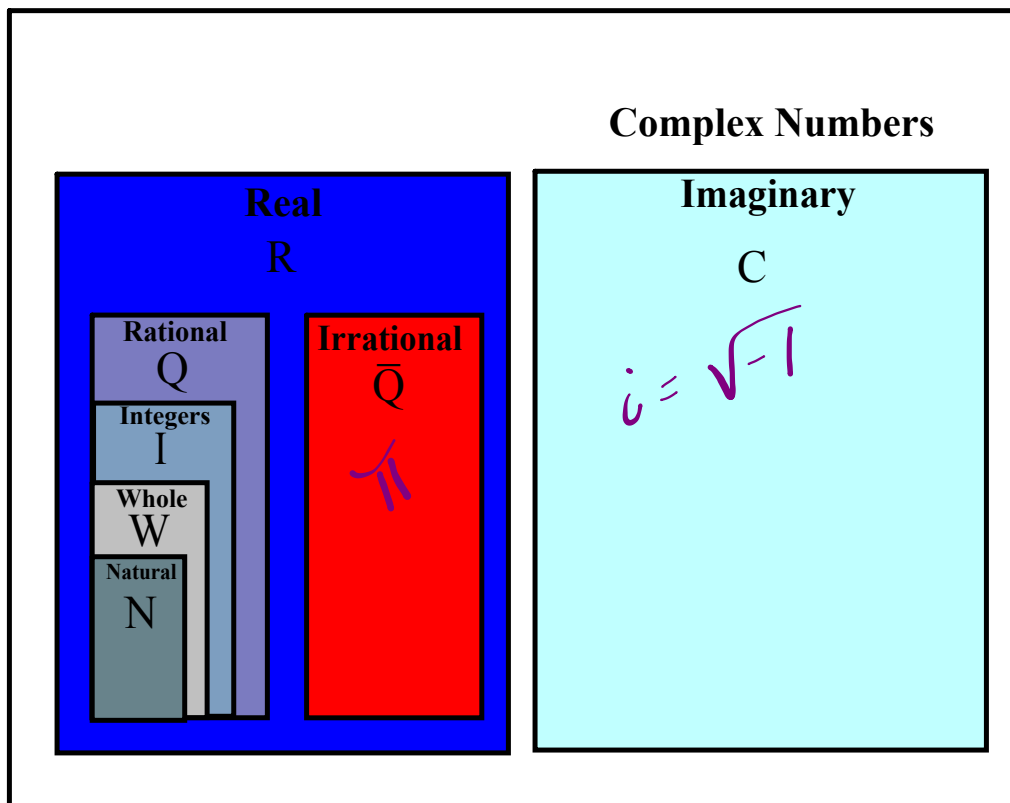


$(5, 2)$


$(5, -2)$

$(5.5, -3.5)$

STORYTIME: "The Complete Number System"



HOMEWORK ASSIGNMENT...

 Worksheet - Graphing Linear Inequalities.pdf

Attachments

Puzzle Worksheet - Graphing Linear Inequalities with Two Variables.pdf

Worksheet - Graphing Linear Inequalities.pdf