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

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

$y = -\frac{8}{3}x - 3$

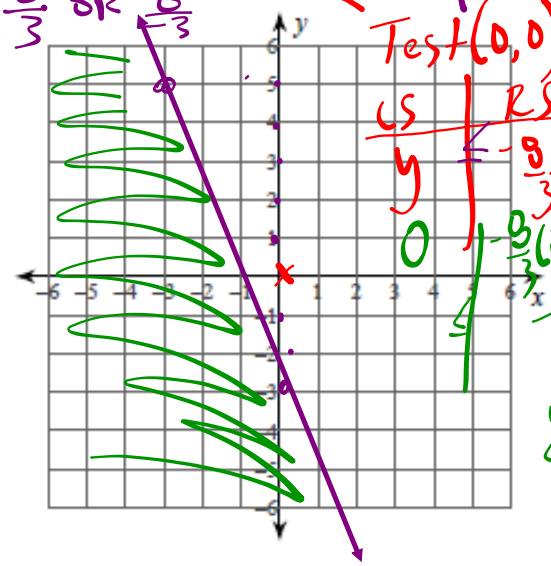
m y-int

$-\frac{8}{3}$ OR $\frac{-8}{3}$

Test (0,0)

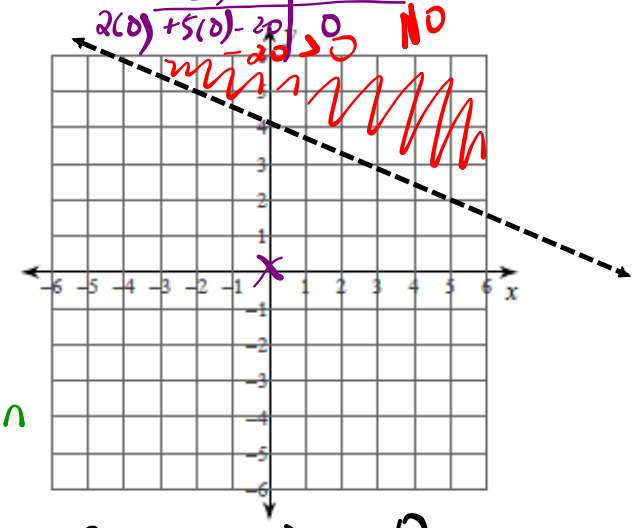
LS	RS
y	$-\frac{8}{3}x - 3$
0	$-\frac{8}{3}(0) - 3$
	-3

NOT a solution



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

LS	RS
$2(0)+5(0)-20$	0
-20	>0 NO



$2x + 5y - 20 = 0$

$\frac{5y}{5} = \frac{-2x}{5} + \frac{20}{5}$

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

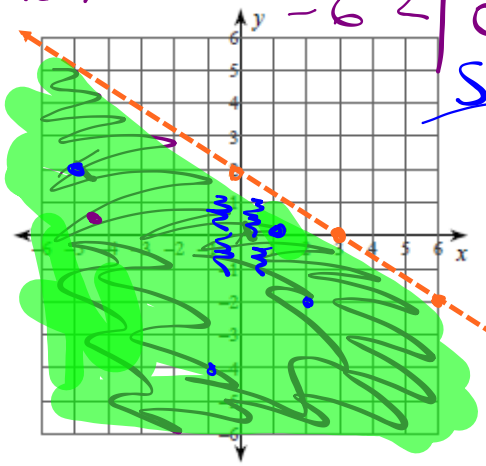
EXAMPLE #5...

LS | RS

$2x+3y-6<0$

$2(0)+3(0)-6 < 0$

$-6 < 0$ yes



Solutions

(1, 0)

(-5, 2)

(-1, -4)

(2, -2)

(-4.5, 0.5)

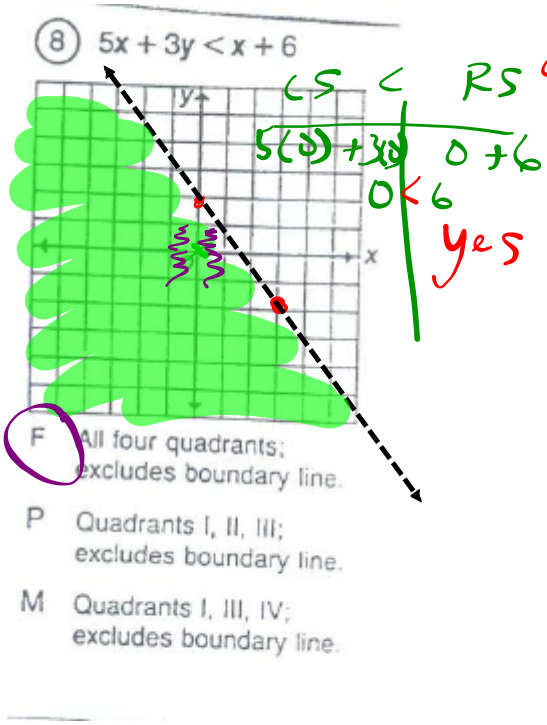
$2x+3y-6=0$

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

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

HOMEWORK...

Puzzle Worksheet - Graphing Linear Inequalities with Two Variables.pdf



$5x + 3y = x + 6$

$5(0) + 3(0) \quad 0 + 6$

$0 < 6$

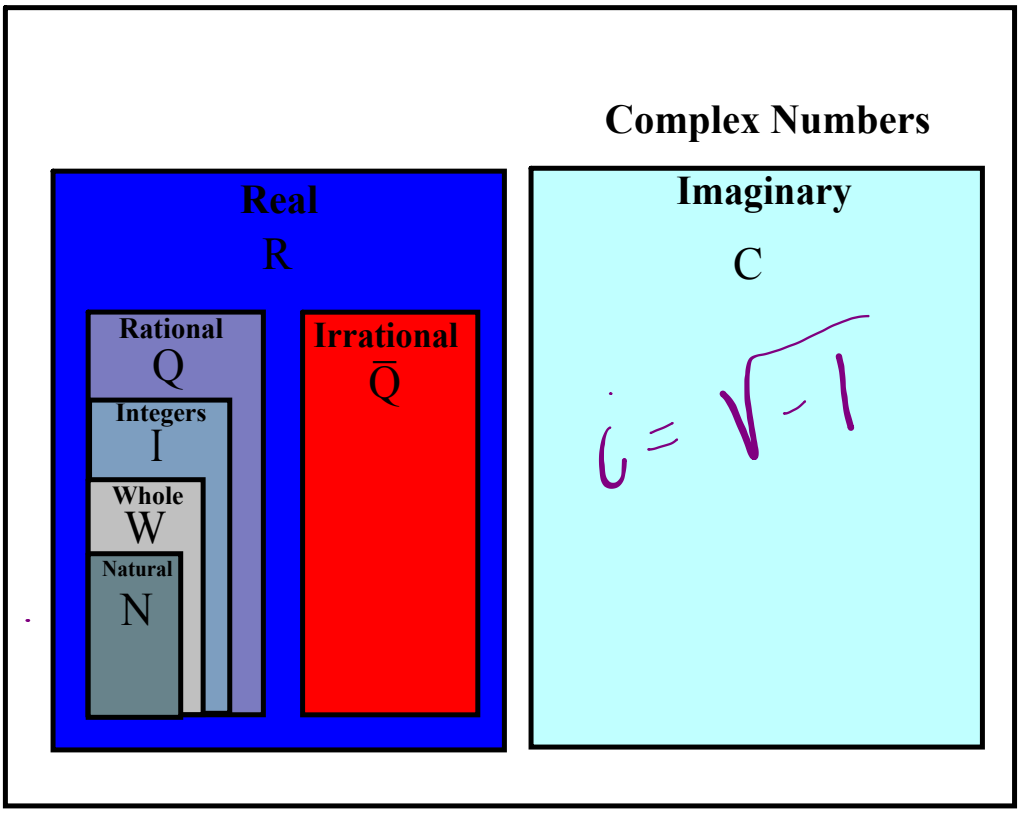
yes

$3y = -5x + x + 6$

$\frac{3y}{3} = \frac{-4x}{3} + \frac{6}{3}$

$y = -\frac{4}{3}x + 2$

STORYTIME: "The Complete Number System"



ASSIGNMENT...

Worksheet - Graphing Linear Inequalities.pdf

Attachments

Puzzle Worksheet - Graphing Linear Inequalities with Two Variables.pdf

Worksheet - Graphing Linear Inequalities.pdf