

# Graphing Inequalities

10/13

\* Follow Rules for graphing  $y = mx + b$

## Rules

$>$  or  $<$  graph w/ a dotted line

$\geq$  or  $\leq$  graphed w/ a Solid line

$>$  or  $\geq$  Shade above the line

$<$  or  $\leq$  Shade below the line

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$$y < 2x - 5$$

x	y
0	-5
1	-3
2	-1
3	1

$$-5 < 2(6) - 5$$

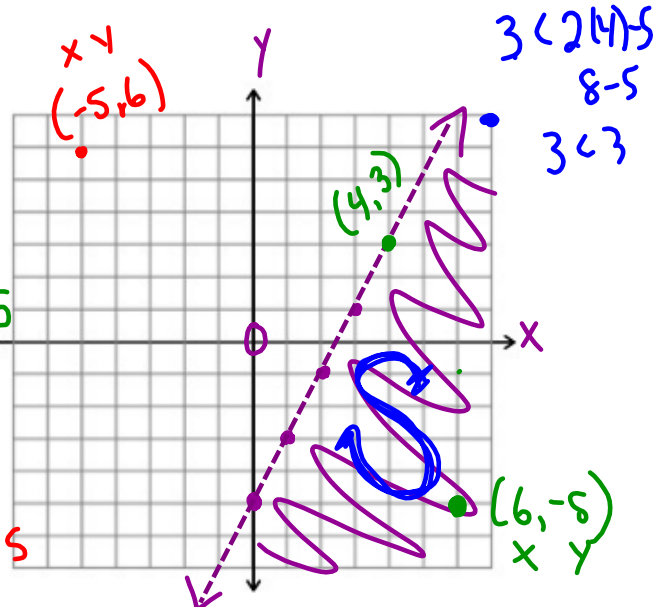
$$-5 < 12 - 5$$

$$-5 < 7$$

$$6 < 2(-5) - 5$$

$$6 < -10 - 5$$

6 < -15 NOT true!



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$$y \geq -\frac{1}{2}x + 2$$

x	y
0	2
2	1
4	0
6	-1

$$6 \geq -\frac{1}{2}(5) + 2$$

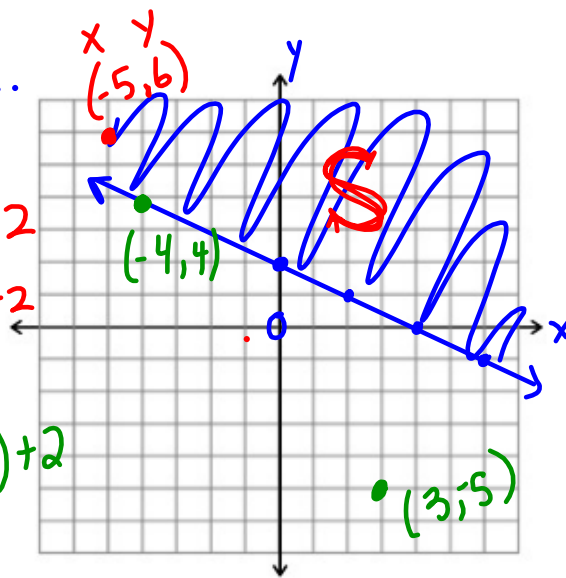
$$6 \geq -2.5 + 2$$

$$6 \geq -0.5$$

$$4 \geq -4(-\frac{1}{2}) + 2$$

$$2 + 2$$

$$4 \geq 4$$



Oct 11-8:24 AM