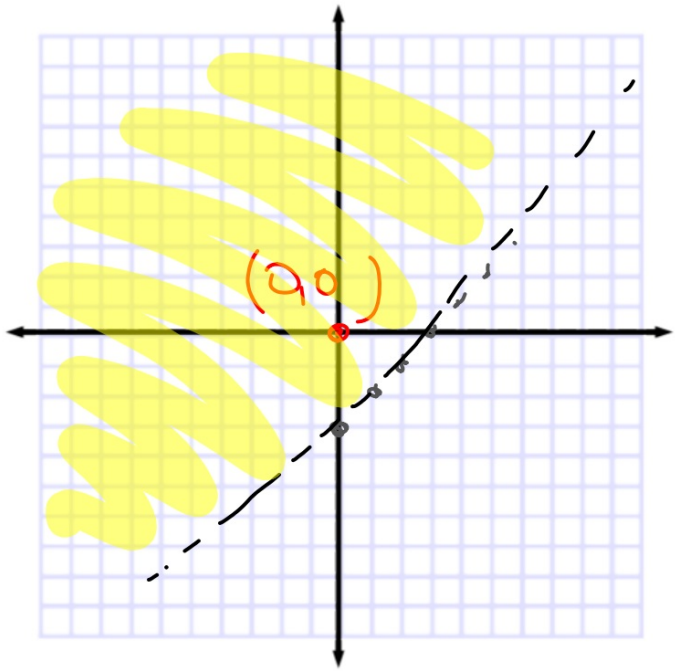
Algebra 1 5.6
Graph linear inequalities
Solve inequalities (related equations)

y=mx+b
test point
Whiteboards

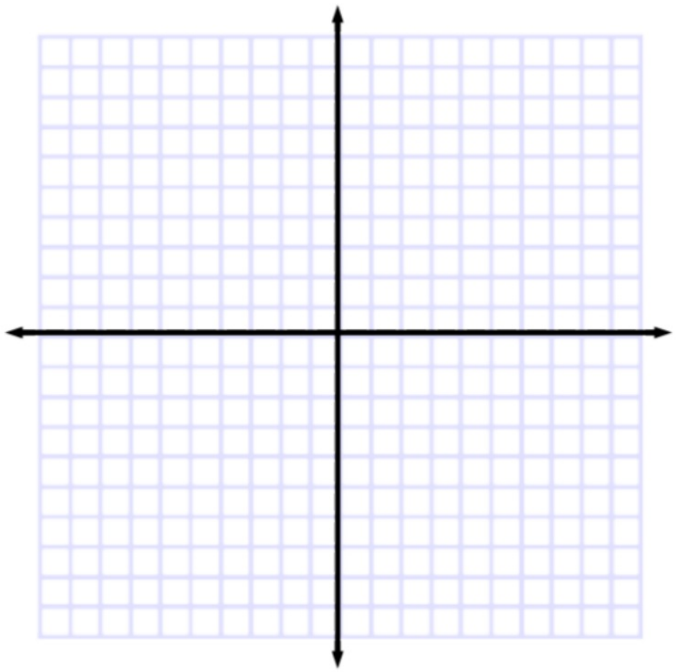
45. $0 > 0 - 3$

$0 > -3$

$y = \frac{1}{1}x - 3$



46. $y < 2x + 1$



Example 6

Graph $2x - y > 3$.

$0 > 3$

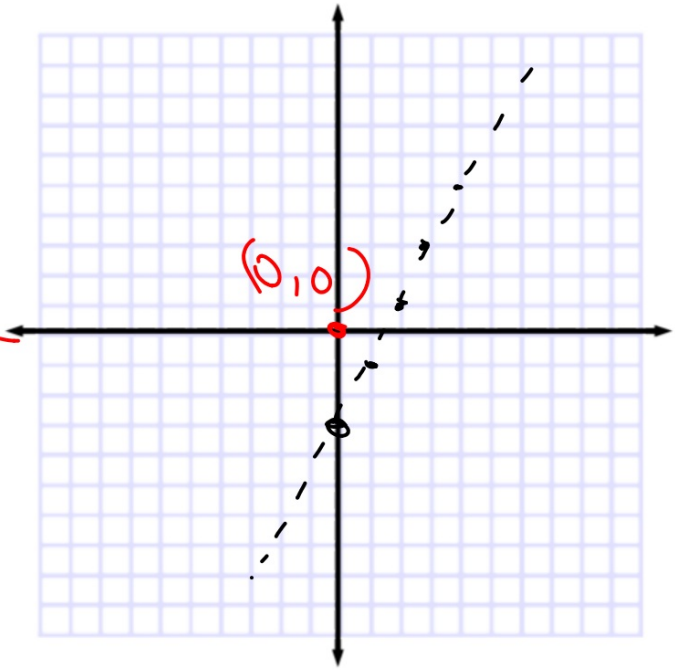
$2x - y = 3$

$-2x \quad -2x$

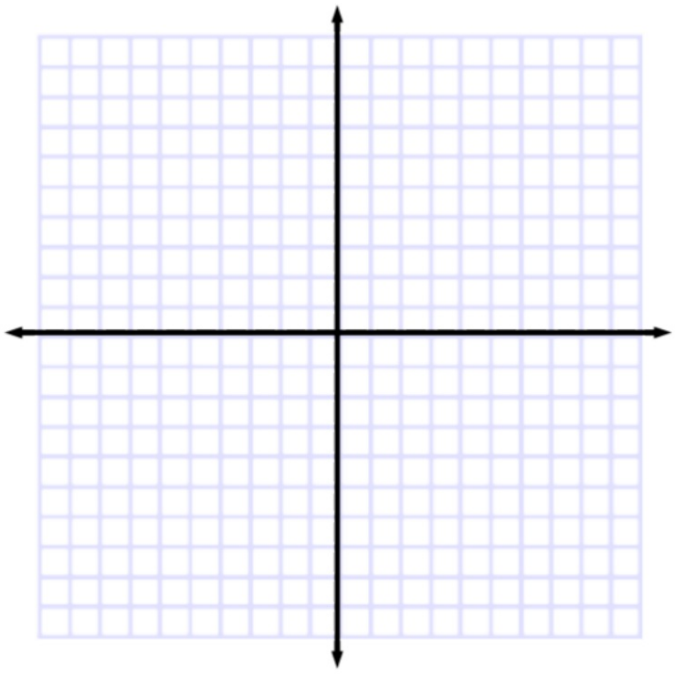
$-y = -2x + 3$

$\frac{-y}{-1} = \frac{-2x}{-1} + \frac{3}{-1}$

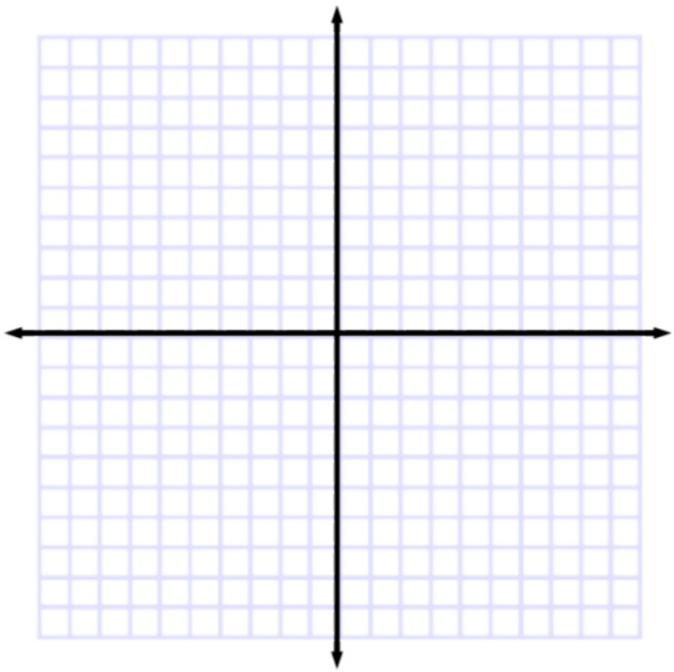
$y = 2x - 3$



50. $x + y \geq 1$



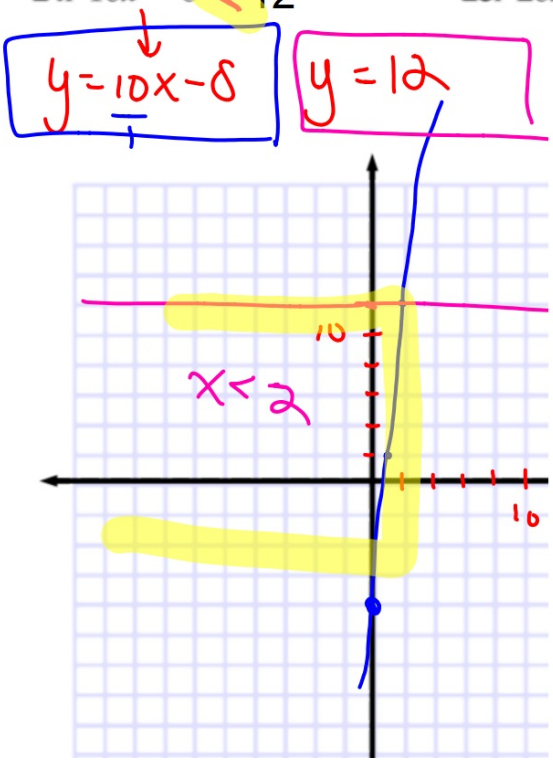
47. $3x - y \leq 4$

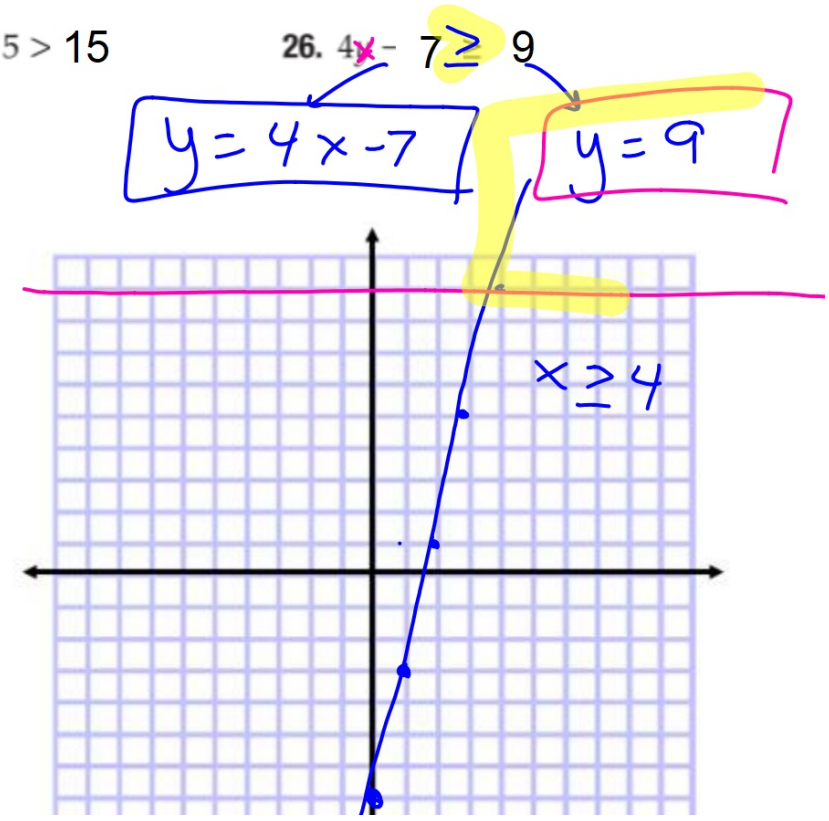


Solve related equations: Where is it higher >
(or lower?<)

Use a graph to solve each inequality.

24. $10x - 8 < 12$ **25.** $20x - 5 > 15$ **26.** $4x - 7 \geq 9$



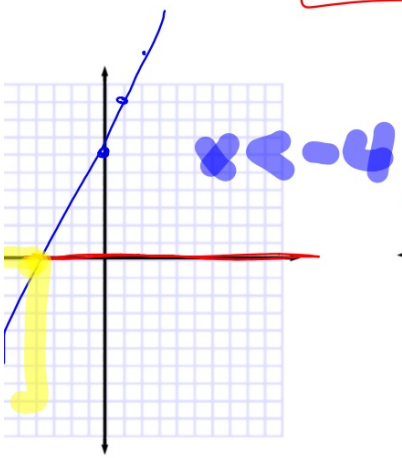


Use a graph to solve each inequality.

31. $3x + 6 < 0$

$y = 3x + 6$

$y = 0$

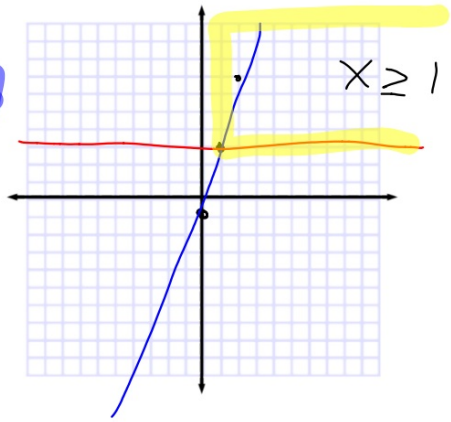


$x < -2$

32. $4x - 1 \geq 3$

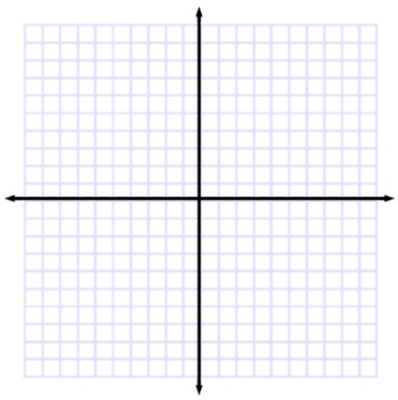
$y = 4x - 1$

$y = 3$



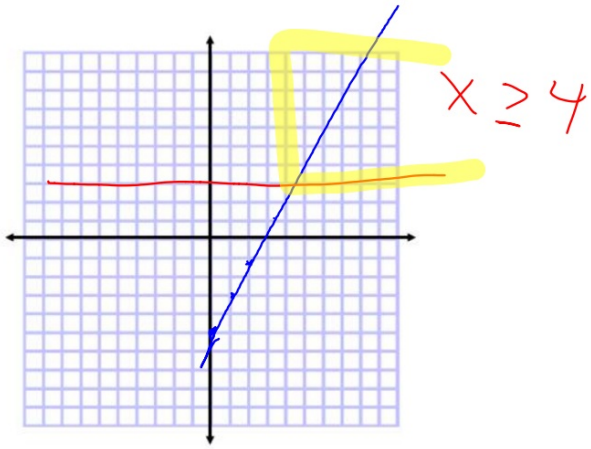
$x \geq 1$

33. $-6x - 8 \geq -4$



$2x + -5 \geq 3$

$y = 2x + -5$ $\quad y = 3$



$x \geq 4$

WB 5.6 prac.

1-9, 11

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