LC Math I Name_____ ID: 1

7.1 Homework

Date_____ Period____

Write the point-slope form of the equation of the line through the given point with the given slope.

1) through: $(-4, -1)$, slope $= -\frac{1}{8}$

2) through: $(4, 2)$, slope $= \frac{1}{2}$

3) through: $(3, 4)$, slope $= 1$

4) through: $(-3, 1)$, slope $= -1$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope $= \frac{1}{5}$, y-intercept $= 0$

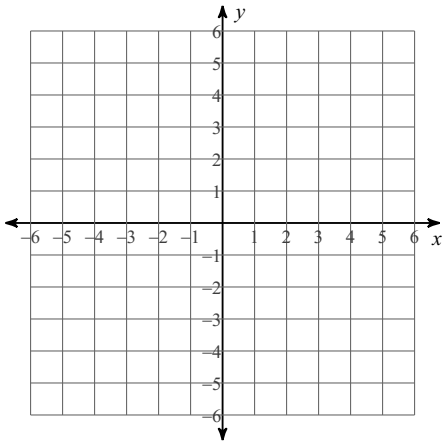
6) Slope $= 2$, y-intercept $= 5$

7) Slope $= 3$, y-intercept $= 4$

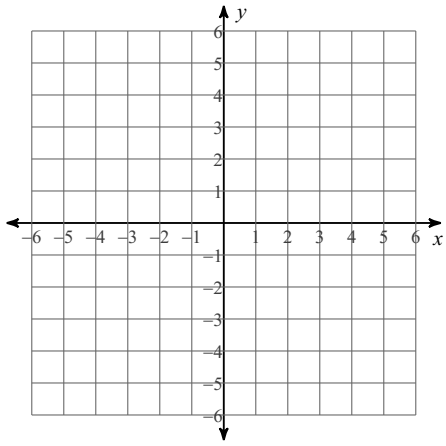
8) Slope $= \frac{7}{2}$, y-intercept $= -3$

Sketch the graph of each line by plotting the intercepts.

9) $x + 2y = 6$

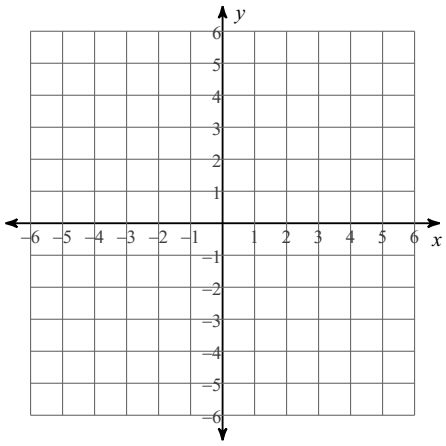


10) $4x + 3y = 12$

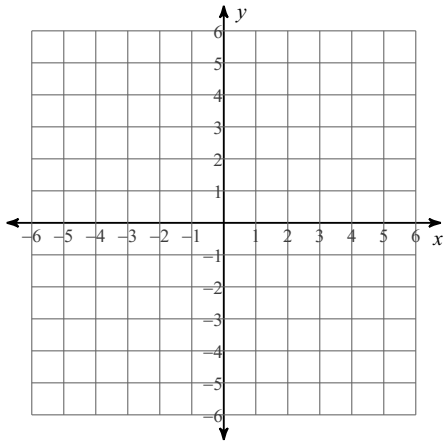


Sketch the graph of each line, then give the interval where y>0

11) $y = 4x + 4$



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



Answers to 7.1 Homework (ID: 1)

1) $y + 1 = -\frac{1}{8}(x + 4)$

2) $y - 2 = \frac{1}{2}(x - 4)$

3) $y - 4 = x - 3$

4) $y - 1 = -(x + 3)$

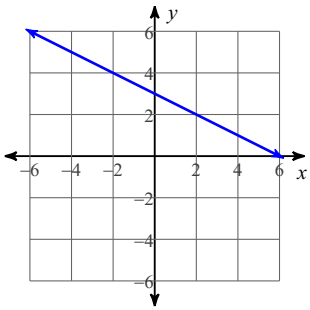
5) $y = \frac{1}{5}x$

6) $y = 2x + 5$

7) $y = 3x + 4$

8) $y = \frac{7}{2}x - 3$

9)



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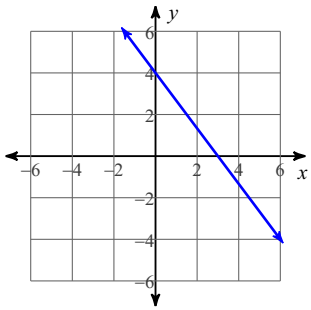

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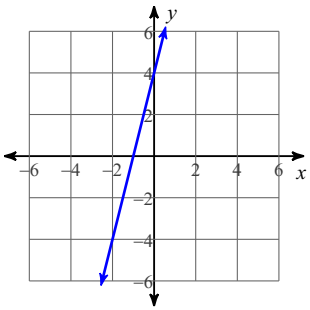

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