

HW 3.6

Date _____ Algebra _____

1) $a(x) = 3x - 12$

what happens when $x = 5$ what happens when $a(x) = 0$ what is $a(-3)$?

2) $b(x) = \frac{5}{2}x + 1$

what happens when $x = -10$ what happens when $b(x) = 3$ what is $b(-2)$?**Write the slope-intercept form of the equation of the line through the given points.**

3) through: $(5, -2)$ and $(-2, 5)$

4) through: $(-3, 4)$ and $(-2, -1)$

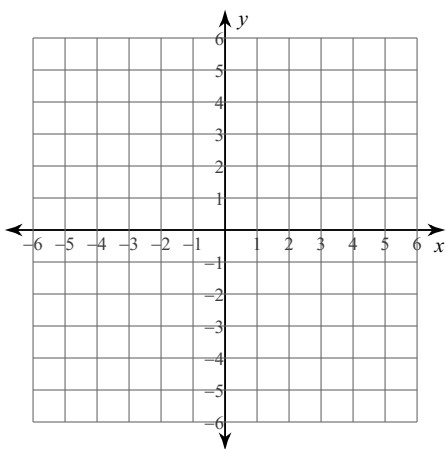
Write the slope-intercept form of the equation of the line described.

5) through: $(-4, -5)$, parallel to $x = 0$

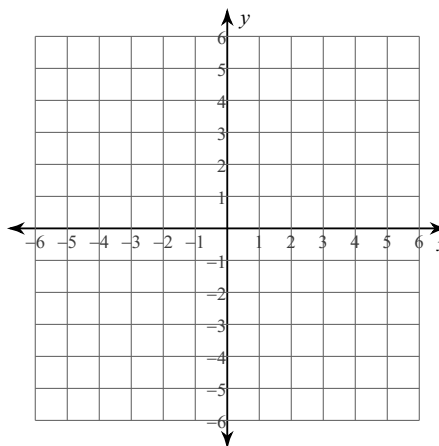
6) through: $(-3, -4)$, perp. to $y = -3x + 5$

Sketch the graph of each line.

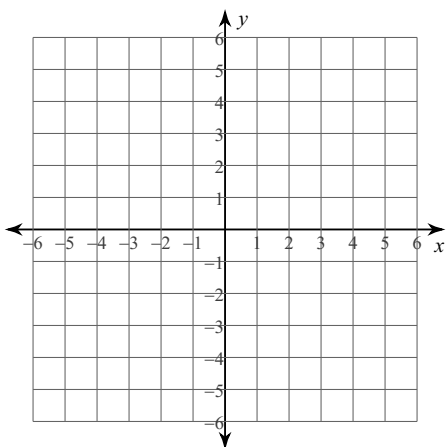
7) $y = -\frac{1}{4}x - 1$



8) $y = -4$



9) $y = -\frac{8}{3}x - 4$



10) $x = 1$

