

NAME _____**DATE** _____**PER.** _____**WRITING EQUATIONS OF LINES WITH A POINT AND SLOPE**

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

1. _____	Slope of -6 and y-intercept of 4
2. _____	Slope of $\frac{1}{2}$ and x-intercept of 4
3. _____	Slope of -3 and x-intercept of -5
4. _____	Slope of $\frac{1}{3}$ and passes through (9, -5)
5. _____	Slope of $-\frac{3}{2}$ and passes through (-4, 8)
6. _____	Undefined slope and passes through (-4, 7)

7. _____

Slope of 0 and passes through (1, 3)

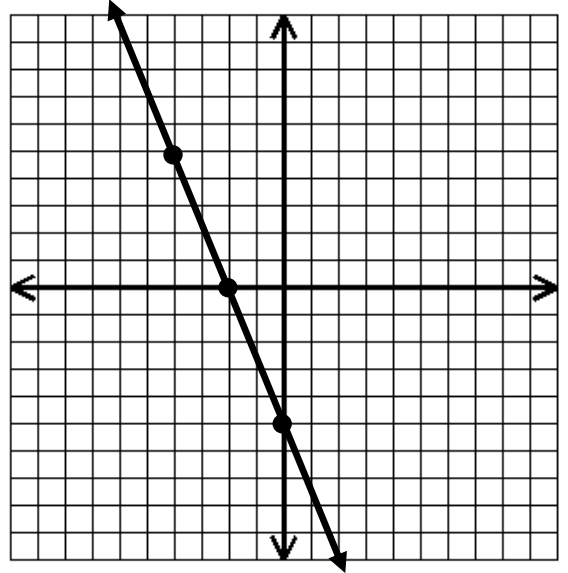
8. Answer each of the following using the line shown.

a) What are the coordinates of the x-intercept?

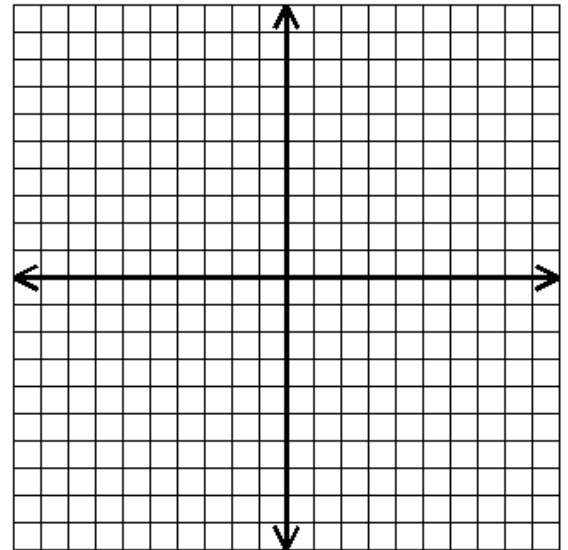
b) What are the coordinates of the y-intercept?

c) What is the constant rate of change?

d) What is the equation of the line?



9. Graph $x + 3y = 12$



Answers in random order: $x = -4$, $y = -\frac{1}{3}x + 4$, $y = -\frac{5}{2}x - 5$, $y = -\frac{3}{2}x + 2$, $y = \frac{1}{2}x - 2$, $-\frac{5}{2}$,
(0, -5), $y = 3$, $y = \frac{1}{3}x - 8$, $y = -6x + 4$, $y = -3x - 15$, (-2,0)