Review 4.4 – 4.7

Find the slope and the *y*-intercept of the graph of the linear equation.

1. y = -4x - 6 $m = _ b = _ b$

Find the *x*- and *y*-intercepts of the graph of the equation.



- 5. You spend \$24 on a meal for you and your friends.
 - **a.** Graph the equation 4y + 6x = 24, where x is the number of sandwiches purchased and y is the number of beverages purchased.
 - **b.** Interpret the intercepts.

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Write an equation of the line in **slope-intercept form.**

6. $m = $	7. $m = $						
Equation:	Equation:						
Write an equation in point-slope form of the line that passe 8. $(1, 2); m = -2$	es through the given point and has the given slope. 9. $(4, -2); m = \frac{1}{4}$						
Equation:	Equation:						
Write an equation in slope-intercept form of the line that passes through the given points.							
10. $(-3, -1), (4, -1)$	11. (2, 5), (0, 1)						

Equation: _____

12. You are draining your fish aquarium. After 2 minutes, there are 6 gallons of water in the aquarium. After 5 minutes, the aquarium is empty. Write an equation that represents the volume *y* (in gallons) of water in the aquarium after *x* minutes.

Equation: _____