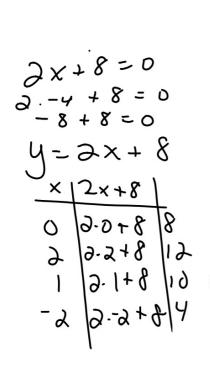
Algebra 1 3.2
X = Solve linear equations by graphing
Estimate solutions to a linear equation by graphing

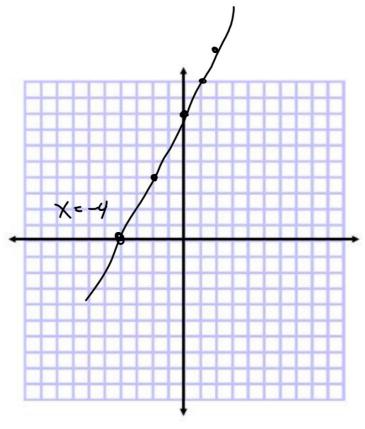
linear function parent function family of graphs x-intercept

$$2y = 5 \qquad x^{3} + 3x = y$$

$$5x = -20 \qquad xy + 5x = 1$$

$$\frac{x}{3} = 5 \qquad \frac{5}{x} = y$$



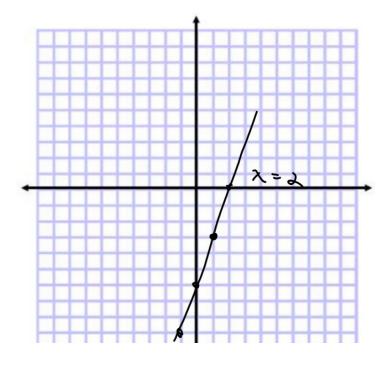


$$3.2 + 5 = 11$$

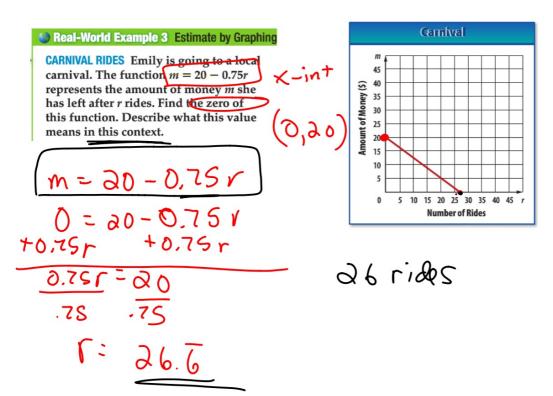
$$3 \times + 5 = 11$$

$$-11 - 11$$

$$3 \times -6 = 0$$



Find the zero= what is the x-intercept? (where y = 0)



## **Guided**Practice

**3. FINANCIAL LITERACY** Antoine's class is selling candy to raise money for a class trip. They paid \$45 for the candy, and they are selling each candy bar for \$1.50. The function y = 1.50x - 45 represents their profit y when they sell x candy bars. Find the zero and describe what it means in the context of this situation.

$$y = 1.50 \times 45$$
 $X = 30$ 
 $0 = 1.50 \times -45$ 
 $y = 1.50 \times -45$ 
 $y$