

**Practice: Determining the Intercepts of Linear Functions**

For problems 1–9, find the requested intercept.

1. the  $y$ -intercept of  $y = 13x - 3$

2. the  $x$ -intercept of  $y = 8x + 2$

3. the  $y$ -intercept of  $y = -5x + 11$

4. the  $x$ -intercept of  $y = 6x - 1$

5. the  $y$ -intercept of  $y = \frac{2}{3}x - 9$

6. the  $x$ -intercept of  $y = -12x + 4$

7. the  $y$ -intercept of  $y = 7x - 8$

8. the  $x$ -intercept of  $y = -3x - 15$

9. the  $y$ -intercept of  $y = 10x - \frac{1}{2}$

For problem 10, read the scenario and use the information in it to answer the questions.

10. The equation  $y = -15x + 180$  models the number of gallons of water,  $y$ , in a reef tank  $x$  minutes after it has started being drained. What intercept of the graph gives the number of minutes it will take the reef tank to drain? According to the intercept, how many minutes will it take to empty the reef tank?