

Solve each system of equations algebraically.

1.  $y = x - 8$   
 $y = 5x$

2.  $y = -x - 4$   
 $y = 3x$

3.  $y = x + 11$   
 $y = 12x$

4.  $y = x - 14$   
 $y = -6x$

5.  $y = -x + 9$   
 $y = 2x$

6.  $y = x + 15$   
 $y = -4x$

7.  $y = -x - 10$   
 $y = 4x$

8.  $y = x + 24$   
 $y = -7x$

9.  $y = -x + 18$   
 $y = 8x$

**Write and solve a system of equations that represents each situation. Interpret the solution.**

**10.** Videll watched 6 times as many hours of television over the weekend as Dineen. Together they watched a total of 14 hours of television. How many hours of television did each person watch over the weekend?

**11.** Lucida is a cross-country ski racer. On Saturday, she skied twice as many miles as she did on Sunday. Over the weekend she skied a total of 63 miles. How far did she ski on each day?

**12.** Bryson and Lilly played a game of darts, and Lilly scored 4 more points than Bryson. The total of their scores was 180. How many points did each of them score?