

**INTERPRETING GRAPHS** Graph the linear system. Then use the graph to tell whether the linear system has *one solution*, *no solution*, or *infinitely many solutions*.

8.  $x + y = -2$

$y = -x + 5$

**no solution**

11.  $-2x + 2y = -16$

$3x - 6y = 30$

**one solution**

9.  $3x - 4y = 12 \rightarrow y = \frac{3}{4}x - 3$

$y = \frac{3}{4}x - 3$

**infinitely many solutions**

10.  $3x - y = -9$

$3x + 5y = -15$

**one solution**

12.  $-9x + 6y = 18$

$6x - 4y = -12$

**infinitely many solutions**

13.  $-3x + 4y = 12$

$-3x + 4y = 24$

**no solution**

p 463 8-13, 15-23

Try  
solve  
for  
y

**SOLVING LINEAR SYSTEMS** Solve the linear system using substitution or elimination.

15.  $2x + 5y = 14$   
 $6x + 7y = 10$   **$(-3, 4)$**

18.  $5x - 5y = -3$   
 $y = x + 0.6$  **infinitely many solutions**

21.  $-18x + 6y = 24$   
 $3x - y = -2$  **no solution**

16.  $-16x + 2y = -2$   
 $y = 8x - 1$  **infinitely many solutions**

19.  $x - y = 0$   
 $5x - 2y = 6$   **$(2, 2)$**

22.  $4y + 5x = 15$   
 $x = 8y + 3$   **$(3, 0)$**

17.  $3x - 2y = -5$   
 $4x + 5y = 47$   **$(3, 7)$**

20.  $x - 2y = 7$   
 $-x + 2y = 7$  **no solution**

23.  $6x + 3y = 9$   
 $2x + 9y = 27$   **$(0, 3)$**