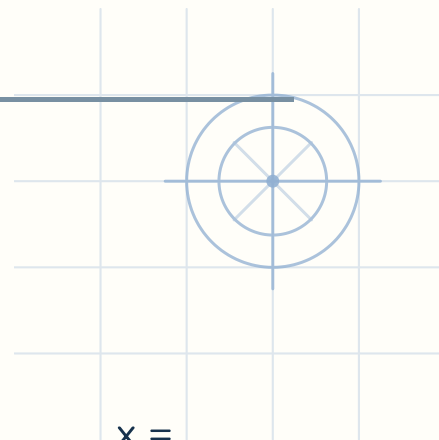


Systems of equations — By substitution

Name: _____

Date: _____

Solve each pair by substitution. Give x and y .



1 $y = x + 8$ $x =$ _____
 $x - 10y = 10$ $y =$ _____

2 $y = 2x - 1$ $x =$ _____
 $-2x + 8y = 20$ $y =$ _____

3 $y = 4x - 7$ $x =$ _____
 $-12x + y = 1$ $y =$ _____

4 $y = -2x + 16$ $x =$ _____
 $x - y = 8$ $y =$ _____

5 $y = 3x - 8$ $x =$ _____
 $12x - 10y = -10$ $y =$ _____

6 $y = -2x + 8$ $x =$ _____
 $10x + 7y = 40$ $y =$ _____



Systems of equations · By substitution — Answer key

1. $y = x + 8$, $x - 10y = 10 \rightarrow$
 $(-10, -2)$

2. $y = 2x - 1$, $-2x + 8y = 20$
 $\rightarrow (2, 3)$

3. $y = 4x - 7$, $-12x + y = 1$
 $\rightarrow (-1, -11)$

4. $y = -2x + 16$, $x - y = 8 \rightarrow$
 $(8, 0)$

5. $y = 3x - 8$, $12x - 10y =$
 $-10 \rightarrow (5, 7)$

6. $y = -2x + 8$, $10x + 7y =$
 $40 \rightarrow (4, 0)$

