

Systems - solving by substitution - extra practice

© 2013 Kuta Software LLC. All rights reserved.

Solve each system by substitution.

1) $6x + y = 12$
 $-5x - 5y = -10$

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

3) $-6x - y = -23$
 $6x + y = 23$

4) $3x + y = 12$
 $-2x + 3y = 3$

5) $-2x + 8y = -16$
 $-3x + y = -2$

6) $5x - 8y = -24$
 $-4x + y = -24$

7) $4x + 4y = 0$
 $x - 6y = -14$

8) $x + y = -6$
 $-2x + 6y = -12$

9) $-4x + y = -23$
 $6x + 8y = 6$

10) $x - 4y = 3$
 $2x - 6y = 2$

$$\begin{aligned} 11) \quad 6x + 4y &= -8 \\ x - 4y &= -6 \end{aligned}$$

$$\begin{aligned} 12) \quad 2x + 3y &= -7 \\ x - 7y &= 5 \end{aligned}$$

$$\begin{aligned} 13) \quad 3x - 2y &= -2 \\ 7x + y &= 18 \end{aligned}$$

$$\begin{aligned} 14) \quad -3x - 3y &= -9 \\ -8x + y &= 3 \end{aligned}$$

$$\begin{aligned} 15) \quad x + 4y &= -4 \\ -x - 4y &= 3 \end{aligned}$$

$$\begin{aligned} 16) \quad 4x - 5y &= -24 \\ x + 3y &= -6 \end{aligned}$$

$$\begin{aligned} 17) \quad -x + 6y &= 13 \\ x - 7y &= -14 \end{aligned}$$

$$\begin{aligned} 18) \quad -3x - 9y &= -3 \\ x + 3y &= -2 \end{aligned}$$

$$\begin{aligned} 19) \quad x - 2y &= -1 \\ -2x + 4y &= 2 \end{aligned}$$

$$\begin{aligned} 20) \quad 8x + 3y &= 21 \\ x - 8y &= 11 \end{aligned}$$

Answers to Systems - solving by substitution - extra practice (ID: 1)

- | | | | |
|----------------------------------|-------------|---------------------------------|-----------------|
| 1) (2, 0) | 2) (6, 5) | 3) Infinite number of solutions | |
| 4) (3, 3) | 5) (0, -2) | 6) (8, 8) | 7) (-2, 2) |
| 8) (-3, -3) | 9) (5, -3) | 10) (-5, -2) | 11) (-2, 1) |
| 12) (-2, -1) | 13) (2, 4) | 14) (0, 3) | 15) No solution |
| 16) (-6, 0) | 17) (-7, 1) | 18) No solution | |
| 19) Infinite number of solutions | 20) (3, -1) | | |