

Substitution & Elimination Homework

1) $y = -3x$
 $y = 6x - 9$

3) $y = -2x - 9$
 $y = 2x - 1$

5) $y = 6x + 4$
 $y = -3x - 5$

7) $y = 3x + 2$
 $y = -3x + 8$

9) $y = 2x - 3$
 $y = -2x + 9$

11) $y = 6x - 6$
 $-3x - 3y = -24$

13) $y = -6$
 $3x - 6y = 30$

15) $y = -5$
 $3x + 4y = -17$

17) $-2x + 2y = 18$
 $y = 7x + 15$

19) $y = -8x + 19$
 $-x + 6y = 16$

21) $7x - 2y = -7$
 $y = 7$

23) $x - 5y = 7$
 $2x + 7y = -20$

25) $-2x - y = -5$
 $x - 8y = -23$

27) $-6x + y = 20$
 $-3x - 3y = -18$

29) $3x + y = 9$
 $2x + 8y = -16$

2) $y = x + 5$
 $y = -2x - 4$

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

6) $y = 3x + 13$
 $y = -2x - 22$

8) $y = -2x - 9$
 $y = -5x - 21$

10) $y = 7x - 24$
 $y = -3x + 16$

12) $-x + 3y = 12$
 $y = 6x + 21$

14) $6x - 4y = -8$
 $y = -6x + 2$

16) $7x + 2y = -7$
 $y = 5x + 5$

18) $y = x + 4$
 $3x - 4y = -19$

20) $y = -2x + 8$
 $-7x - 6y = -8$

22) $x - 2y = -13$
 $4x + 2y = 18$

24) $3x - 4y = 15$
 $7x + y = 4$

26) $6x + 4y = 16$
 $-2x + y = -3$

28) $7x + 5y = -13$
 $x - 4y = -16$

30) $-5x - 5y = -20$
 $-2x + y = 7$

Substitution & Elimination Homework

$$\begin{aligned} 31) \quad & 2x + y = 2 \\ & 3x + 7y = 14 \end{aligned}$$

$$\begin{aligned} 33) \quad & x + 5y = 15 \\ & -3x + 2y = 6 \end{aligned}$$

$$\begin{aligned} 35) \quad & -2x + 4y = -16 \\ & y = -2 \end{aligned}$$

$$\begin{aligned} 37) \quad & -6x + 6y = -12 \\ & 8x - 3y = 16 \end{aligned}$$

$$\begin{aligned} 39) \quad & 2x + 3y = 16 \\ & -7x - y = 20 \end{aligned}$$

$$\begin{aligned} 32) \quad & 2x + y = -7 \\ & 5x + 3y = -21 \end{aligned}$$

$$\begin{aligned} 34) \quad & 2x + 3y = -10 \\ & 7x + y = 3 \end{aligned}$$

$$\begin{aligned} 36) \quad & -2x + 2y = -22 \\ & -5x - 7y = -19 \end{aligned}$$

$$\begin{aligned} 38) \quad & -8x + 2y = -6 \\ & -2x + 3y = 11 \end{aligned}$$

$$\begin{aligned} 40) \quad & -x - 4y = -14 \\ & -6x + 8y = 12 \end{aligned}$$

ANSWERS

$$1) (1, -3)$$

$$2) (-3, 2)$$

$$3) (-2, -5)$$

$$4) (0, 3)$$

$$5) (-1, -2)$$

$$6) (-7, -8)$$

$$7) (1, 5)$$

$$8) (-4, -1)$$

$$9) (3, 3)$$

$$10) (4, 4)$$

$$11) (2, 6)$$

$$12) (-3, 3)$$

$$13) (-2, -6)$$

$$14) (0, 2)$$

$$15) (1, -5)$$

$$16) (-1, 0)$$

$$17) (-1, 8)$$

$$18) (3, 7)$$

$$19) (2, 3)$$

$$20) (8, -8)$$

$$21) (1, 7)$$

$$22) (1, 7)$$

$$23) (-3, -2)$$

$$24) (1, -3)$$

$$25) (1, 3)$$

$$26) (2, 1)$$

$$27) (-2, 8)$$

$$28) (-4, 3)$$

$$29) (4, -3)$$

$$30) (-1, 5)$$

$$31) (0, 2)$$

$$32) (0, -7)$$

$$33) (0, 3)$$

$$34) (1, -4)$$

$$35) (4, -2)$$

$$36) (8, -3)$$

$$37) (2, 0)$$

$$38) (2, 5)$$

$$39) (-4, 8)$$

$$40) (2, 3)$$