

Name: _____

Date _____

Topic : Algebraic Solutions to Simultaneous Equations - Worksheet 1

Solve and check

1.
$$\begin{aligned} 2x - 4y &= -2 \\ 2x + 3y &= 12 \end{aligned}$$

2.
$$\begin{aligned} 3a + 5b &= 26 \\ a + 5b &= 22 \end{aligned}$$

3.
$$\begin{aligned} 4x - 2y &= -4 \\ 4x + 3y &= 16 \end{aligned}$$

4.
$$\begin{aligned} 3x + 5y &= 31 \\ 5x + 2y &= 39 \end{aligned}$$

5.
$$\begin{aligned} 7x + 6y &= 32 \\ 3x + 5y &= 21 \end{aligned}$$

6.
$$\begin{aligned} 6x - 3y &= 15 \\ 4x - 6y &= -2 \end{aligned}$$

7.
$$\begin{aligned} 6a - 3b &= -10 \\ 3a + 5b &= 8 \end{aligned}$$

8.
$$\begin{aligned} 3x - 8y &= 6 \\ 2x + 4y &= 8 \end{aligned}$$

9.
$$\begin{aligned} 6x - 3y &= 27 \\ 3x + 4y &= 8 \end{aligned}$$

10.
$$\begin{aligned} 6x - 4y &= -12 \\ 8x - 3y &= -2 \end{aligned}$$



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Topic : Algebraic Solutions to Simultaneous Equations - Worksheet 2

Solve and check

1.
$$\begin{aligned} 3x - 4y &= -5 \\ 4x + 3y &= 10 \end{aligned}$$

2.
$$\begin{aligned} 2a + 5b &= 23 \\ 4a + 3b &= 25 \end{aligned}$$

3.
$$\begin{aligned} 2x - 6y &= 2 \\ 3x + 2y &= 25 \end{aligned}$$

4.
$$\begin{aligned} 9x + y &= 11 \\ 4x + 8y &= 20 \end{aligned}$$

5.
$$\begin{aligned} 5x - 7y &= -43 \\ 5x + 8y &= 47 \end{aligned}$$

6.
$$\begin{aligned} 5x - 3y &= 19 \\ x - 6y &= -7 \end{aligned}$$

7.
$$\begin{aligned} 8a - 3b &= 19 \\ 9a + 5b &= 80 \end{aligned}$$

8.
$$\begin{aligned} 5x - 6y &= 2 \\ 4x + 3y &= 12 \end{aligned}$$

9.
$$\begin{aligned} 4x - 3y &= 30 \\ 8x + 5y &= 5 \end{aligned}$$

10.
$$\begin{aligned} 6x - 7y &= 3 \\ 4x - 6y &= -2 \end{aligned}$$



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Topic : Algebraic Solutions to Simultaneous Equations - Worksheet 3

Solve and check

1.
$$\begin{aligned} 2x - 3y &= 2 \\ 3x + 4y &= 20 \end{aligned}$$

2.
$$\begin{aligned} 4a + 6b &= 54 \\ 3a + 2b &= 28 \end{aligned}$$

3.
$$\begin{aligned} 5x - 3y &= 42 \\ 3x + 2y &= 29 \end{aligned}$$

4.
$$\begin{aligned} 3x + 4y &= 43 \\ 6x + 3y &= 51 \end{aligned}$$

5.
$$\begin{aligned} 5x + 2y &= 10 \\ x + 5y &= 4 \end{aligned}$$

6.
$$\begin{aligned} 3x - 2y &= 11 \\ 5x - 4y &= 17 \end{aligned}$$

7.
$$\begin{aligned} 3a - 6b &= -27 \\ 7a + 3b &= 39 \end{aligned}$$

8.
$$\begin{aligned} 4x - 7y &= -14 \\ 5x + 3y &= 53 \end{aligned}$$

9.
$$\begin{aligned} 6x - 3y &= 3 \\ 5x + 4y &= 22 \end{aligned}$$

10.
$$\begin{aligned} 3x - 7y &= -25 \\ 2x - 3y &= -10 \end{aligned}$$



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Topic : Algebraic Solutions to Simultaneous Equations - Worksheet 4

Solve and check

1.
$$\begin{aligned} 3x - 4y &= 10 \\ 2x + 2y &= 16 \end{aligned}$$

2.
$$\begin{aligned} 4a + b &= 18 \\ 2a - 2b &= -6 \end{aligned}$$

3.
$$\begin{aligned} 2x - 3y &= -11 \\ 5x + 3y &= 25 \end{aligned}$$

4.
$$\begin{aligned} 3a - 2b &= 2 \\ 2a + 3b &= 23 \end{aligned}$$

5.
$$\begin{aligned} 4x - y &= 17 \\ 6x - 3y &= 21 \end{aligned}$$

6.
$$\begin{aligned} 4x + 5y &= 43 \\ 2x - 3y &= 5 \end{aligned}$$

7.
$$\begin{aligned} 12x - 4y &= 20 \\ 5x - 2y &= 6 \end{aligned}$$

8.
$$\begin{aligned} 3x + 6y &= 57 \\ 3x + 5y &= 50 \end{aligned}$$

9.
$$\begin{aligned} 7x - 5y &= 3 \\ 6x + 4y &= 44 \end{aligned}$$

10.
$$\begin{aligned} 4x + 3y &= 17 \\ 4x - 5y &= -7 \end{aligned}$$



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Topic : Algebraic Solutions to Simultaneous Equations - Worksheet 5

Solve and check

1.
$$\begin{aligned} 5x + 3y &= 36 \\ 2x + 3y &= 18 \end{aligned}$$

2.
$$\begin{aligned} 6a + 2b &= 30 \\ 4a + 3b &= 30 \end{aligned}$$

3.
$$\begin{aligned} 2x - 5y &= -21 \\ 4x + 3y &= 23 \end{aligned}$$

4.
$$\begin{aligned} 3a - 9b &= -33 \\ 5a + 4b &= 40 \end{aligned}$$

5.
$$\begin{aligned} 3x - 6y &= -3 \\ 5x - 6y &= 7 \end{aligned}$$

6.
$$\begin{aligned} x + 9y &= 34 \\ 4x - 5y &= 13 \end{aligned}$$

7.
$$\begin{aligned} 6x - 3y &= 3 \\ 4x - 3y &= -5 \end{aligned}$$

8.
$$\begin{aligned} 6x + 5y &= 65 \\ 6x + 8y &= 86 \end{aligned}$$

9.
$$\begin{aligned} 9x - 8y &= -4 \\ 3x + 5y &= 37 \end{aligned}$$

10.
$$\begin{aligned} 9x + 8y &= 42 \\ 3x - 2y &= 0 \end{aligned}$$

