

Name: \_\_\_\_\_

Date \_\_\_\_\_

Algebraic Solutions To Linear Systems- Worksheet 1

Solve and check:

1. 
$$\begin{aligned} 2x - 3y &= -6 \\ x + 2y &= 11 \end{aligned}$$

2. 
$$\begin{aligned} 2a + b &= 9 \\ a - b &= -3 \end{aligned}$$

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

4. 
$$\begin{aligned} 4a - b &= 10 \\ 2a + 2b &= 10 \end{aligned}$$

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

6. 
$$\begin{aligned} 4x + y &= 19 \\ 3x - 2y &= 6 \end{aligned}$$

7. 
$$\begin{aligned} 20x - y &= 38 \\ x - 2y &= -2 \end{aligned}$$

8. 
$$\begin{aligned} 3x + 2y &= 7 \\ 2x + 2y &= 6 \end{aligned}$$

9. 
$$\begin{aligned} 4x - y &= 22 \\ 2x + y &= 14 \end{aligned}$$

10. 
$$\begin{aligned} 3x + 2y &= 18 \\ x - y &= -4 \end{aligned}$$



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## Algebraic Solutions To Linear Systems- Worksheet 2

Solve and check:

1. 
$$\begin{aligned} 3x - 3y &= -18 \\ 2x + 2y &= 4 \end{aligned}$$

2. 
$$\begin{aligned} 4a + b &= 14 \\ 2a - 2b &= -8 \end{aligned}$$

3. 
$$\begin{aligned} 2x - 3y &= -7 \\ 5x + 3y &= 14 \end{aligned}$$

4. 
$$\begin{aligned} 3a - 2b &= -3 \\ 2a + 3b &= 24 \end{aligned}$$

5. 
$$\begin{aligned} 4x - y &= 10 \\ 6x - 3y &= 6 \end{aligned}$$

6. 
$$\begin{aligned} 4x + 5y &= 35 \\ 2x - 3y &= 1 \end{aligned}$$

7. 
$$\begin{aligned} 12x - 4y &= 40 \\ 5x - 2y &= 16 \end{aligned}$$

8. 
$$\begin{aligned} 3x + 6y &= 51 \\ 3x + 5y &= 45 \end{aligned}$$

9. 
$$\begin{aligned} 7x - 5y &= 17 \\ 6x + 4y &= 56 \end{aligned}$$

10. 
$$\begin{aligned} 4x + 3y &= 30 \\ 4x - 5y &= -18 \end{aligned}$$



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Algebraic Solutions To Linear Systems- Worksheet 3

Solve and check:

1. 
$$\begin{aligned} 2x + 3y &= 18 \\ 3x + 2y &= 22 \end{aligned}$$

2. 
$$\begin{aligned} 5a + 6b &= 53 \\ 3a + 7b &= 51 \end{aligned}$$

3. 
$$\begin{aligned} 3x - 2y &= -4 \\ 5x + 3y &= 25 \end{aligned}$$

4. 
$$\begin{aligned} 4a - 2b &= 6 \\ 7a + 6b &= 58 \end{aligned}$$

5. 
$$\begin{aligned} 2x - 5y &= -5 \\ 4x - 7y &= -1 \end{aligned}$$

6. 
$$\begin{aligned} 6x + 5y &= 57 \\ x - 7y &= -14 \end{aligned}$$

7. 
$$\begin{aligned} 10x - 2y &= 26 \\ 4x - 3y &= -5 \end{aligned}$$

8. 
$$\begin{aligned} 2x + 5y &= 36 \\ 4x + 8y &= 60 \end{aligned}$$

9. 
$$\begin{aligned} 9x - 6y &= 6 \\ 3x + 2y &= 22 \end{aligned}$$

10. 
$$\begin{aligned} 7x + 9y &= 41 \\ 5x - 8y &= -14 \end{aligned}$$



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Algebraic Solutions To Linear Systems- Worksheet 4

Solve and check:

1. 
$$\begin{aligned} 5x + 3y &= 26 \\ 2x + 3y &= 14 \end{aligned}$$

2. 
$$\begin{aligned} 6a + 2b &= 46 \\ 4a + 3b &= 39 \end{aligned}$$

3. 
$$\begin{aligned} 2x - 5y &= 13 \\ 4x + 3y &= 39 \end{aligned}$$

4. 
$$\begin{aligned} 3a - 9b &= -48 \\ 5a + 4b &= 53 \end{aligned}$$

5. 
$$\begin{aligned} 3x - 6y &= 9 \\ 5x - 6y &= 23 \end{aligned}$$

6. 
$$\begin{aligned} x + 9y &= 23 \\ 4x - 5y &= 10 \end{aligned}$$

7. 
$$\begin{aligned} 6x - 3y &= 0 \\ 4x - 3y &= -6 \end{aligned}$$

8. 
$$\begin{aligned} 6x + 5y &= 72 \\ 6x + 8y &= 90 \end{aligned}$$

9. 
$$\begin{aligned} 9x - 8y &= -6 \\ 3x + 5y &= 21 \end{aligned}$$

10. 
$$\begin{aligned} 9x + 8y &= 41 \\ 3x - 2y &= -5 \end{aligned}$$



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Algebraic Solutions To Linear Systems- Worksheet 5

Solve and check:

1. 
$$\begin{aligned} 4x + 3y &= 39 \\ x + 2y &= 16 \end{aligned}$$

2. 
$$\begin{aligned} 4a + 6b &= 34 \\ 3a + 2b &= 18 \end{aligned}$$

3. 
$$\begin{aligned} 4x - 7y &= 13 \\ 2x + 8y &= 18 \end{aligned}$$

4. 
$$\begin{aligned} 7a - 6b &= -1 \\ 4a + 3b &= 38 \end{aligned}$$

5. 
$$\begin{aligned} 7x - 3y &= 9 \\ 5x - 4y &= -1 \end{aligned}$$

6. 
$$\begin{aligned} 7x + 5y &= 45 \\ 4x - 3y &= 14 \end{aligned}$$

7. 
$$\begin{aligned} 6x - 8y &= -26 \\ 5x - 2y &= 11 \end{aligned}$$

8. 
$$\begin{aligned} 7x + 5y &= 33 \\ 6x + 4y &= 28 \end{aligned}$$

9. 
$$\begin{aligned} 7x - 8y &= 4 \\ 2x + 4y &= 20 \end{aligned}$$

10. 
$$\begin{aligned} 6x + 5y &= 50 \\ 4x - y &= 16 \end{aligned}$$

