Solving some simultaneous equations

Practice Quiz, 5 questions

5/5 points (100%)

Congratulations! You passed!

Next Item

1 / 1 point

1.

This quiz is a refresher in solving simultaneous equations, which you should already be familiar with. If you need a reminder on how to do these, feel free to search online for a handy guide!

Solve the system of equations given by:

$3x + 2y = 7$

$2x + 3y = 8$

- $x = 2, y = 1$
- $x = 1, y = 2$

Correct

Substitution and elimination is a good method of solving a simple system of linear equations.

- $x = 2, y = 3$
- $x = 3, y = 2$

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1 / 1 point

2.

Solve the system of equations given by:

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$9x - 17y = 20$

$-13x + 7y = -94$

- $x = 7, y = 11$
- $x = 11, y = 7$

Correct

Substitution and elimination is a good method of solving a simple system of linear equations.

- $x = -13, y = 7$
- $x = 9, y = -17$

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1 / 1 point

3.

Solve the system of equations given by:

$5x - 2y = -13$

$4x + 5y = -6$

- $x = -\frac{7}{3}, y = \frac{2}{3}$

Correct

Substitution and elimination is a good method of solving a simple system of linear equations.

- $x = -\frac{5}{3}, y = \frac{3}{2}$
- $x = -\frac{3}{7}, y = \frac{2}{5}$
- $x = \frac{5}{3}, y = -\frac{3}{5}$

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1 / 1 point

4.

Solve the system of equations given by:

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$3x + 7y = 11$

$20x - 18y = 39$

- $x = \frac{471}{230}, y = \frac{5}{46}$

Correct

Substitution and elimination is a good method of solving a simple system of linear equations.

- $x = \frac{230}{471}, y = \frac{46}{5}$
- $x = \frac{5}{46}, y = \frac{471}{230}$
- $x = \frac{5}{230}, y = \frac{471}{46}$

1 / 1 point

5.

Solve the system of equations given by:

$3x - 2y + z = 7$

$x + y + z = 2$

$3x - 2y - z = 3$

- $x = 1, y = -1, z = -2$
- $x = -1, y = 2, z = 1$
- $x = 1, y = -1, z = 2$

Correct

Substitution and elimination can be extended to more than two variables.

- $x = -1, y = 2, z = -1$

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