

Assignment Due: _____

1 of 6

Systems of Two Linear Equations – Substitution and Elimination

Name _____ Section/Period _____

Assigned: _____

Solve the following systems using substitution.

1. $y+3x=6$
 $y+8=x$

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

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3. $y=2x+4$
 $x-(1/2)y=2$

4. $y-2=-1.5x$
 $2y=4x-24$

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5. $y=3x+3$
 $y=-4x+3$

Solve each of the following using elimination.

6. $2y=3x+4$
 $y=2x-5$

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7. $3y=3-2x$
 $2y=3x+1$

8. $-y=x-3$
 $-x+y=4$

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9. $y=2x+4$
 $2y=4x+8$

10. $x+5=y$
 $3x-3y=14$

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11. Try finding a formula for ANY system on linear equations in the form:

$$Ax+By=C$$

$$Dx+Ey=F$$

Try and solve those two equations for x and y so that x equals some combination of A, B, C, D, E, and F, and the same process for y. You do not need to have the correct answer to get credit for this, show an attempt. For example:

Take $Ax+By=C$ and solve for x, giving you:

$$x = \frac{C - By}{A}$$

And Solving $Dx+Ey=F$ for x gives you:

$$x = \frac{F - Ey}{D}$$

You could then set the two equal to each other and solve for y.

Again, all I am looking for is an attempt, not if you have the correct answer or not.

I have yet to have a student successfully solve this without my help, so try.