Math Practice - Grade 8

M7 Systems of two linear equations - Solve a system by substitution or elimination

M7 8.EE.C.8, 8.EE.C.8a, 8.EE.C.8b, 8.EE.C.8c

Name: _____ Date: _____

Solve the system. Write the solution as an ordered pair.

Example: Solve the system by substitution.

How: Solve one equation for a variable and substitute it into the other, or add the equations so one variable cancels. Then substitute back to find the other variable.

$y = 3x - 8$

$1x + y = 0$

(2, -2)

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1 **Solve the system by elimination.**

$2x + 1y = 11$

$4x + 4y = 28$

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2 **Solve the system by substitution.**

$y = 2x - 5$

$5x + y = 2$

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3 **Solve the system by substitution.**

$y = -2x + 8$

$2x + y = 8$

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Name: _____ Date: _____

Solve the system. Write the solution as an ordered pair.

Example: Solve the system by elimination.

How: Solve one equation for a variable and substitute it into the other, or add the equations so one variable cancels. Then substitute back to find the other variable.

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

(5, -1)

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1 **Solve the system by elimination.**

$$-x - 5y = -9$$
$$4x - 3y = -10$$

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2 **Solve the system by elimination.**

$$-x - 5y = -15$$
$$-3x + 4y = 12$$

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3 **Solve the system by substitution.**

$$y = -2x + 12$$
$$1x + y = 7$$

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Solve the system. Write the solution as an ordered pair.

Example: Solve the system by elimination.

How: Solve one equation for a variable and substitute it into the other, or add the equations so one variable cancels. Then substitute back to find the other variable.

$5x + 2y = -19$

$4x - 5y = -35$

(-5, 3)

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1 **Solve the system by substitution.**

$y = x + 7$

$2x + y = -8$

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2 **Solve the system by substitution.**

$y = -2x - 15$

$1x + y = -10$

---

3 **Solve the system by substitution.**

$y = -x - 1$

$1x + y = -1$