Math Practice - Grade 8

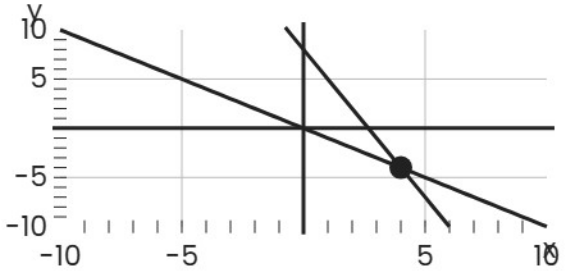
M7 Systems of two linear equations

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

Name: _____ Date: _____

Find the point where two lines cross on a graph. Solve a system by substitution or elimination. Tell whether a system has one solution, no solution, or infinitely many solutions. Solve a real problem with two unknowns.

1 **Find the point where the two lines cross.**



Solution ☐

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2 **Solve the system by substitution.**

$$y = -x - 1$$

$$4x + y = -7$$

☐

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3 **How many solutions does the system have?**

$$x + 2y = 6$$

$$x + 2y = 10$$

☐ One solution ☐ No solution ☐ Infinitely many solutions

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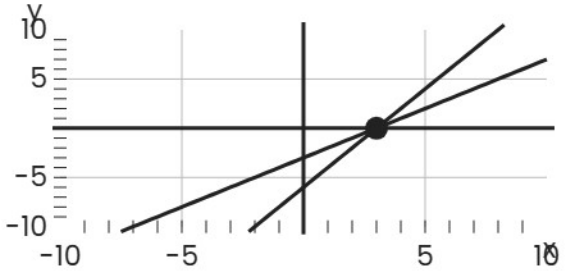

Solution ☐

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2 **Solve the system by elimination.**

$$x + 2y = 9$$

$$-3x - 5y = -25$$

☐

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3 **How many solutions does the system have?**

$$y = -2x + 5$$

$$1x + 2y = 4$$

☐ One solution ☐ No solution ☐ Infinitely many solutions

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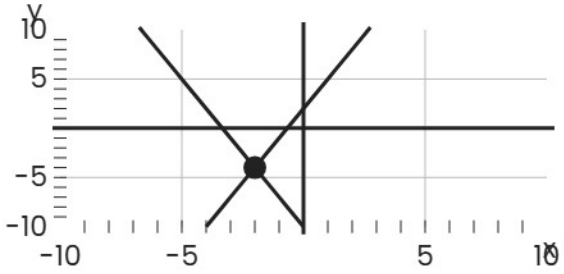

Solution ☐

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2 **Solve the system by elimination.**

$$2x + 5y = 23$$

$$-x + 1y = 6$$

☐

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3 **How many solutions does the system have?**

$$y = -3x + 10$$

$$2x + 4y = 20$$

☐ One solution ☐ No solution ☐ Infinitely many solutions