	Name		Period	Date
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What You Should Be Able To Do For the It's In The System Unit Test

Write each equation in Slope-Intercept and Standard Forms. Find slope, x - and y - intercepts.

$$6y = \frac{3}{5}x - 7$$

$$\frac{3}{2}x = 5y - \frac{1}{3}$$

$$4y - \frac{2}{7}x + 3 = 0$$

Solve with substitution:

$$\begin{cases} -1 = 3y - x\\ 2x + 4y = 12 \end{cases}$$

Solve with combination/elimination:

$$\begin{cases} 2x - 5y = 15\\ 3x + 7y = 8 \end{cases}$$

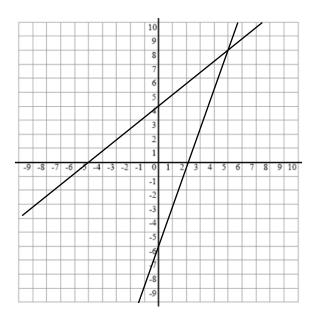
Find a common solution by graphing.

$$\begin{cases} 3x - 8y = 24\\ y = -\frac{3}{5}x + 2 \end{cases}$$

Solve algebraically to find the exact solution.

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Write the system of equations pictured below.



Write a system of equations with ...

One solution (not the one above!)

No solutions

Infinite Solutions

For the following situations, define your variables, write, and solve the system.

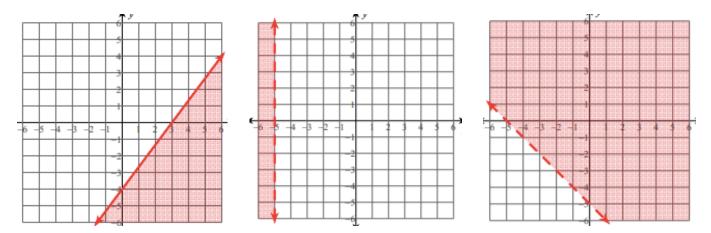
Ms. Kitts works at a music store. Last week she sold 6 more than 3 times the number of CDs that she sold this week. Ms. Kitts sold a total of 110 CDs over the 2 weeks. How many CDs did she sell each week?

Chase and Sara went to the candy store. Chase bought 5 pieces of fudge and 3 pieces of bubble gum for a total of \$5.70. Sara bought 2 pieces of fudge and 10 pieces of bubble gum for a total of \$3.60. How much does a piece of fudge cost?

Solve for x and graph your solutions.

$$3(4-5x) \ge 4x-20 \qquad \qquad \frac{4x+3}{7} - 5 < 3x-2$$

Write the equations for the inequalities graphed below.



A trailer can carry a maximum weight of 160 pounds and a maximum volume of 15 cubic feet. A microwave oven weighs 30 pounds and has 2 cubic feet of volume, while a printer weighs 20 pounds and has 3 cubic feet of space. If they have to bring more than one microwave, how many combinations of printers and microwaves can they carry?

