Bell Work

1. John and Sarah are saving money for a car. The total amount of money John will save is given by the function f(x)=60+5x. The total amount of money that Sarah will save is given by the function $g(x) = x^2+46$. After how many weeks,x, will they have the same amount of money saved. Explain how you arrived at your answer.

 $60+5x=x^2+46$ 0=x²-5x-14 0=(x-7)(x+2)x-7= 0 or x+2=0 x=7 or x=-2 Cannot have negative time! So, after 7 weeks they will have the same amount of money (\$95).

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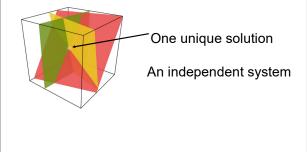
Solving System of 3 linear Equations in 3 Variables

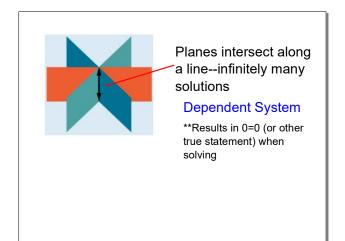
A linear equation in three variables has three distinct variables, each of which is either first degree or has a coefficient of 0.

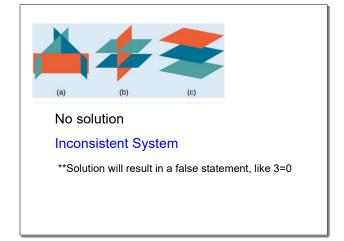
The three variables that satisfy the linear equation are called an ordered triple and are written (x,y,z).

The set of all ordered pairs that satisfy a an equation like this forms a plane.

system of equations in three variables: a set of one or more equations, each of which contain one or more of the variables x,y and z.

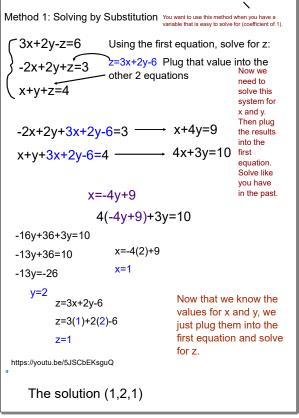






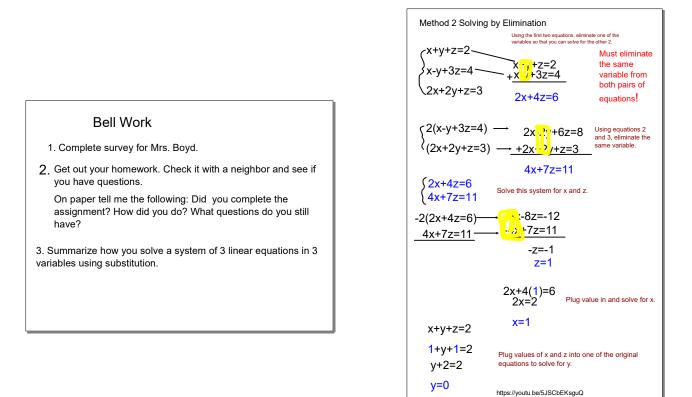
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Reflect: Write the steps that you took to solve by elimination.

