## 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 $f$ $(x)=60+5 x$. 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.


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 ( $\mathrm{x}, \mathrm{y}, \mathrm{z}$ ).
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 $\mathrm{x}, \mathrm{y}$ and z .



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The solution (1,2,1)


No solution
Inconsistent System
**Solution will result in a false statement, like 3=0

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| Your turn 2 and 3 page 206 |
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| Reflect |
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#### Abstract

Bell Work 1. Complete survey for Mrs. Boyd 2. Get out your homework. Check it with a neighbor and see if you have questions. On paper tell me the following: Did you complete the assignment? How did you do? What questions do you still have? 3. Summarize how you solve a system of 3 linear equations in 3 variables using substitution




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