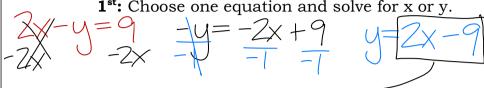
How Do You Solve a System of Equations by Substitution?

$$3x + 2y = 10$$
$$2x - y = 9$$

 1^{st} : Choose one equation and solve for x or y.



2nd: Substitute the expression from that equation into the other equation and solve.

$$3x + 2y = 10$$

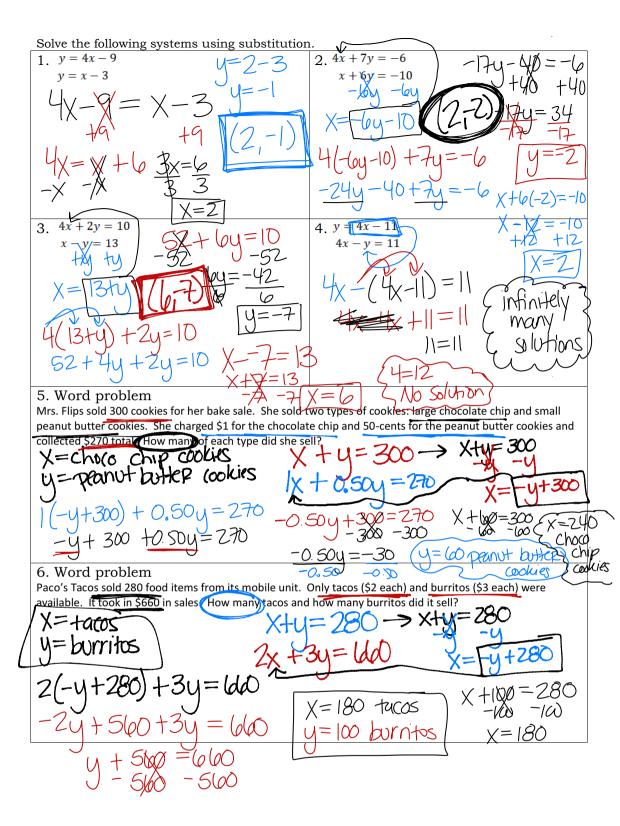
 $3x + 2(2x - 9) = 10$
 $3x + 4x - 18 = 10$
 $7x - 18 = 10$

3rd: Substitute the value found in step 2 back into the equation solved step one.

solved step one.

$$2x - y = 9$$
 $-y = 9$
 $-y = 9$
 $-y = 9$
 $-y = 9$
 $-y = 9$

4th: Write the solution as an ordered pair.



 $\frac{Try me}{2x + 3y = 16}$ -7x - y = 20