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.

$$3x + 2y = 10$$

 $-3x$

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

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

$$2x - y = 9$$

$$2x - (-1.5x + 5) = 9$$

$$\frac{3.5x = 14}{3.5}$$

$$2x - y = 9$$

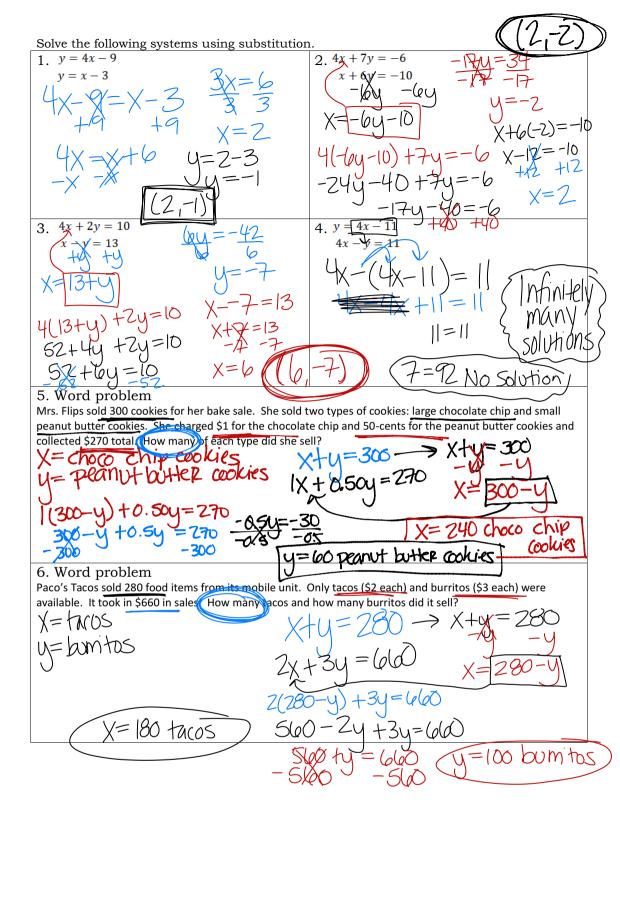
$$2(4) - y = 9$$

$$8-y=9$$

$$\frac{1}{\sqrt{1-1}}$$

$$\sqrt{1-1}$$

$$(4,-1)$$



$$\frac{\text{Solve}}{\text{Dy=2x-3}}$$

$$\frac{\text{2}}{\text{3x-4y=15}}$$

$$\frac{\text{3}}{\text{2x+3y=16}}$$

$$\frac{\text{-7x-y=20}}{\text{-7x-y=20}}$$