9) Solve the following equations:

a) 
$$\frac{5x}{6} + 8 = 5 - \frac{2x}{3}$$
  
 $6\left[\frac{5x}{6} + 8\right] = 6\left[5 - \frac{2x}{3}\right]$   
 $5x + 48 = 30 - 4x$   
 $9x = -18'$   
 $x = -2$ 



c) 
$$|2x-3|=5$$
  
 $2x-3=5$  or  $2x-3=-5$   
 $2x=8$  or  $2x=-2$   
 $x=4$   $x=-1$ 

10) Maria bought two plots of land for a total of 140,000. On the first plot, she made a profit of 15%. On the second, she lost 10%. Her total profit was \$7250. How much did she pay for each piece of land?

x = lond That made 15% prof. + ? 
$$x+y = 140,000$$
  
y = land That loot 10% S ov y = 140,000 - x  
.15x - .10 y = 7250  
.15x - .10 (140,000 - x) = 7250  
.15x - 14,000 + .1x = 7250  
.25x = 21,250  
x = 85,000  
Ahe spent \$\$ \$5,000 on land That made money  
and \$\$5,000 on land That lost money