We use the Zero Product Property to solve polynomial equations in factored form:

- Make sure the polynomial is in <u>Factored</u> form, if it isn't you must factor it.
- Set each of your factors equal to 100 and solve.
- These give you the 2001S, 2005, SolutionS, or x intercepts of your parabola.

\* leave all answers as simplified fractions or Reduced improper fractions \*

1. 
$$(x-4)(x+3)=0$$
  
 $(-4=0)$   $x+3=0$   
 $y=4$   $y=-3$ 

2. 
$$(x+5)(x-1)=0$$
  
 $X+6=0$   $X-1=0$   
 $X=-5$   $X=1$ 

3. 
$$(2x-3)(x+8)=0$$
  
 $2x-3=0$   
 $+3=0$   
 $+3=0$   
 $1x=-8$   
 $1x=-8$   
 $1x=3/2$ 

4. 
$$(2x-1)(3x-4)=0$$
  
 $2x-1=0$   $3x-4=0$   
 $x=1/2$   $x=4/3$ 

$$5. \times (\times + 4) = 0$$

$$\boxed{X = 0} \quad \boxed{X = -4}$$