So I can factor. Now what?

$$x^{2}+7x+10 = 0$$

$$x^{2}+2x+5x+10 = 0$$

$$x(x+2)+5(x+2)=0$$

$$(x+2)(x+5)=0$$

$$x+2=0$$

$$x+3=0$$

$$x=-2$$

$$x^{2}-6x+12=4$$
 $x^{2}-6x+8=0$ 
 $x^{2}-6x+8=0$ 
 $x^{2}-2x-4x+8=0$ 
 $x(x-2)-4(x-2)=0$ 
 $(x-2)(x-4)=0$ 
 $x-2=0$ 
 $x-2=0$ 
 $x=2$ 

TO SOLVE A QUADRATICN:

I. MAKE EQUATION EQUAL ZERO

(PUT EVERYTHING ON ONE SIDE)

- 2. FACTOR
- 3. SET EACH FACTOR EQUAL

  to RERO

$$2x^{2}+5x+2 = x^{2}+2x+20$$

$$-x^{2}-2x-20 - x^{2}-2x-20$$

$$x^{2}+3x-18 = 0$$

$$x^{2}-3x+6x-18 = 0$$

$$x(x-3)+6(x-3)=0$$

$$(x-3)(x+6)=0$$

$$x+6=0$$

$$x=3$$

$$x=3$$

$$x=6$$