Sec 5-5

Solving quadratic equations by factoring:

- Write eq in Standard Form:
  $ax^2 + bx + c = 0$
- Factor
- Find the zeros of each factor

Solve each by factoring.

1. $x^2 + 6x = 16$

   $x^2 + 6x - 16 = 0$

   $(x+8)(x-2)=0$

   $x = -8, 2$

2. $8a^2 - 20a = 0$

   $4a(2a - 5) = 0$

   $a = 0, 5/2$

3. $2w^2 = 7w - 5$

   $2w^2 - 7w + 5 = 0$

   $(2w - 5)(w - 1) = 0$

   $w = 5/2 , 1$

4. $2w^2 + 11 = 60 - 7w^2$

   $9w^2 - 49 = 0$

   $(3w \pm 7) = 0$

   $w = \pm 7/3$