**Supplemental Notes: Factoring Quadratic Equations**



**Factor and solve.**

1. *z2 – 12z + 27 = 0* 2. *x2 + 13x + 40 = 0*

3. *x2 – 7x – 44 = 0* 4. *x2 + 3x – 130 = 0*

**Geometric Applications.**

5. The area of a rectangle is 8 ft2 and one side is *(x + 2)* ft and the other side is *x* ft, find the length of each side of the rectangle.

6. In the diagram,  and . Solve for y. 