

### **MAT0028 ~ Lesson 36**

Work the following examples as you listen to the recorded lecture.

#### **Solving Quadratic Equations by Factoring**

Example 1:  $(x - 6)(x + 7) = 0$

Example 2:  $3x(x - 8) = 0$

Example 3:  $(2x - 7)(7x + 2) = 0$

Example 4:  $\left(x - \frac{1}{2}\right)\left(x + \frac{1}{3}\right) = 0$

Example 5:  $x^2 + 2x - 8 = 0$

Example 6:  $x^2 - 4x = 0$

Example 7:  $x^2 - 4x = 32$

Example 8:  $24x^2 + 44x = 8$