# LT 3.6 Honors Skills Practice
*Solving Quadratic Equations by Factoring*

**Solve the following quadratic equations by factoring.**

**1.** $3x^2 - 12 = 0$

**2.** $15x^2 - 240 = 0$

**3.** $9x^2 - 25 = 0$

**4.** $x^2 - 121 = 0$

**Solve each equation by factoring.**

**5.** $64x^2 + 112x + 49 = 0$

**6.** $289x^2 + 34x + 1 = 0$

**7.** $121x^2 - 88x + 160 = 0$

**8.** $x^2 - 20x + 100 = 0$

**Challenge**

**9.** $144x^2 + 24xy + 9y^2 = 0$

**10.** $x^2 - 6xy + 9y^2 = 0$