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

Solve the following quadratic equations by factoring.

1.  $3x^2 - 12 = 0$ **2.**  $15x^2 - 240 = 0$  $3(x^2 - 4) = 0$ x = 4, -43(x-2)(x+2) = 0x = 2, -2 3.  $9x^2 - 25 = 0$ 4.  $x^2 - 121 = 0$ x = -5/3, 5/3x = 11, -11

Solve each equation by factoring.

7. 
$$121x^2 - 88x + 160 = 0$$
  
**8.**  $x^2 - 20x + 100 = 0$   
**8.**  $x = 10, 10$ 

## **Challenge: Factor**

9. 
$$144x^2 + 24xy + 9y^2 = 0$$
  
 $(12x + y)^2 = 0$   
 $(x - 3y)^2 = 0$   
 $(x - 3y)^2 = 0$