

Topic 6.2  
Solving Quadratic Equations by Factoring  
Homework

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Solve each equation by factoring.**

1.  $x^2 - 3x = 10$

2.  $x^2 + 7x = -12$

3.  $x^2 + 12x + 36$

4.  $2x^2 - 6x + 4 = 0$

5.  $x^3 = 6x^2 + 16x$

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

7.  $10x^2 + 3 = 11x$

8.  $3x^3 + 11x^2 = -6x$

9.  $6x^3 - 24x = 0$

10.  $3x^4 + 27x^2 = -18x^3$

11.  $12x^2 - 7x = -1$

12.  $4x^2 = 44x - 112$