

Topic 5.4  
Factoring  
Homework

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

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

**Factor completely. If the polynomial is not factorable, write *prime*.**

1.  $x^2 + 8x + 15$

2.  $x^2 - 2x - 24$

3.  $x^2 - 9$

4.  $16x^2 + 9y^2$

5.  $2x^2 - 14x + 20$

6.  $4x^2 - 8x - 12$

7.  $3x^2 + 7x + 4$

8.  $6x^2 + 2x - 8$

9.  $x^2 + 8x + 16$

10.  $2x^2 - 6x + 3$

11.  $5x^2 - 80$

12.  $6x^2 + 24x + 24$