

# Factoring Review

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

## Factor Completely.

### Factor the difference of squares

1.  $m^2 - 36$

2.  $25b^2 - 4$

### Factor out the greatest common factor

3.  $18x^2 - 36xy$

4.  $48r^2 - 4r$

### Factor by grouping

5.  $3x^3 - x^2 - 12x + 4$

6.  $6x^2 + 2x + 6xy + 2y$

### Factor the trinomials

7.  $6x^2 + x - 15$

8.  $x^2 - 9x + 36$

### Factor completely

9.  $a^2 - 121$

10.  $x^2 - 5x - 6$

11.  $6x^3 - 10x^2 + 3x - 5$

12.  $2x^2 - 18$

13.  $7x^2 - 112x$

14.  $2x^2 - 5x - 12$

15.  $4x^3 + 12x^2 - x - 3$

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

### Solve the quadratic equations below

17.  $4x^2 - 9$

18.  $18x^2 + 9x + 1$

19.  $3x^2 - 12x$

20.  $x^2 - 12x + 36$