

Name: _____ Hr: _____

Factoring Difference of Squares, Greatest Common Factor, and by Grouping

Factor the Difference of Squares

1. $m^2 - 16$

2. $4k^2 - 81$

3. $3r^2 - 27$

4. $x^2 - 49$

Factor by factoring out the greatest common factor

5. $7x^{10} + 7x^9$

6. $6x^3 - 3x^2 - 8x$

Factor by grouping

7. $6x^3 + 9x - 4x^2 - 6$

8. $2x^2y + 6xy - x - 3$

Now practice factoring all types together

9. $81b - 18$

10. $y^2 - 64$

11. $10x^4 + 5x^2$

12. $4k + 12 + k^2 + 3k$

13. $4x^2 - 25$

14. $2ac + ad + 6bc + 3bd$

15. $6x^3 + 9x - 4x^2 - 6$

16. $2x^2 - 8$