Factoring Practice

Name _____

Factor out the common monomial

1. $6x^3 + 3x$

2. $10x^4 + 3x^2 + 2x$

3. $8x^2 + 4$

4. $26x^3 + 13x$

Factor using reverse FOIL

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

6. $x^2 + x - 12$

7. $x^2 - 4x - 5$

8. $3x^2 - 21x + 30$

9. $2x^2 + 18x + 40$

10. $x^2 - 8x + 15$

Factor using sum/difference of cubes

11. $125 - x^3$

12. $-27x^3 + 64$

13. $16a^3 + 54$

14. $x^3 - 1$

Factor using grouping.

15. $x^3 - 2x^2 - 9x + 18$

16. $12x^3 - 9x^2 + 4x - 3$

17. $2x^3 + 5x^2 + 6x + 15$

18. $35xy - 5x - 56y + 8$