Algebra 2   Name_____

Review of Factoring

Date_____ Mods_____

Factor each completely. Remember to first factor out the GCF when possible.

1) $5x^3 + 5x^2 - 10x$

2) $m^2 + 13m + 36$

3) $5n^2 - 40n - 100$

4) $5k^2 + 70k + 240$

5) $5a^2 - 7a$

6) $2x^3 - 9x^2 + 4x$

7) $21n^2 - 51n - 36$

8) $5r^2 - 4r$

9) $4p^2 + 20p + 25$

10) $16p^2 - 9$

Factor each completely. Remember to first factor out the GCF when possible.

11) $4x^2 + 25x + 6$

12) $16m^2 + 4m - 56$

13) $12n^2 - 48n + 45$

14) $4n^2 + 8n + 3$

15) $x^4 + 4x^2 + 3$

16) $4x^4 - 196$

Use factor by grouping to factor the polynomial.

17) $24x^3 + 3x^2 - 40x - 5$

18) $2k^3 + 4k^2 - 7k - 14$

19) $56n^3 - 24n^2 + 7n - 3$

20) $7p^3 + 42p^2 - 2p - 12$