

Factoring all forms

Date _____ Period _____

Factor using Difference of Squares (#3 and #4 are special cases)

1) $r^2 - 1$

2) $m^2 - 9$

3) $2k^2 - 32$

4) $b^4 - 81$

5) $9p^2 - 25$

6) $4x^2 - 25$

Factor using Greatest Common Factor

7) $2x^3 + 3x^2$

8) $-70 + 50x$

9) $24r^4 + 6r - 24$

10) $18 + 8v - 18v^3$

Factor each completely (four problems have a GCF that must be factored out first)

11) $n^2 + 7n + 10$

12) $x^2 - x - 56$

13) $n^2 + 19n + 90$

14) $2x^2 + 14x + 20$

15) $5v^2 - 21v - 54$

16) $8p^2 - 12p - 80$

17) $4n^2 + 54n + 140$

18) $32n^2 - 56n + 20$

19) $10n^2 + 49n - 5$

20) $9m^2 - 3m - 2$