Math 2A Name_____



# 8.1 Prep to Factor (Review)

Period____

**Put the quadratics in standard form and find a,b and c.**

1) $6k^2 - 31k + 28 = 0$

2) $x^2 - 6x - 7 = 0$

3) $n^2 - n = 56$

4) $x^2 + 4x = 5$

5) $x^2 = 5x$

6) $3b^2 = -16 - 14b$

**Factor out the greatest common factor (GCF)**

7) $x^3 - 6x^2 + 5x$

8) $5x^2 - 15x - 90$

9) $4n^2 - 12n - 112$

10) $6x^4 + 12x^3 - 144x^2$

**Find AxC and B. Then list two numbers that multiply to AxC and add to B.**

11) $b^2 + 12b + 35 = 0$

12) $n^2 + 11n + 24 = 0$

13) $5n^2 - 21n - 20 = 0$

14) $-16 = -18x - 9x^2$

**Factor the following by grouping.**

15) $x^2 + 3x - 6x - 18 = 0$

16) $x^2 - 5x + 2x + 10 = 0$

17) $2x^2 - 3x + 10x - 15 = 0$

18) $5x^2 - 5x + 2x - 2 = 0$

19) $4x^2 + 2x - 10x - 5 = 0$

20) $15x^2 + 10x - 12x - 8 = 0$