



Name: \_\_\_\_\_ Period: \_\_\_\_\_

## SM2 HW 5.4 Factoring (All Types)

**Factor each trinomial completely. Don't forget to check for a common factor first. If the polynomial is prime, say so.**

1.  $-12u^2 + 22u + 4$

2.  $2q^2 - 50$

3.  $4g^2 + 4g - 15$

4.  $6d^2 + 7d - 3$

5.  $m^2 - 5m - 6$

6.  $6r^2 + 15r + 7$

7.  $12n^2 + 48n - 27$

8.  $v^2 - 5v + 6$

9.  $3r^3 + 33r^2 + 54r$

10.  $-2n^3 + 26n^2 - 80n$

11.  $8p^3 - 76p^2 + 36p$

12.  $7x^2 - 98$

13.  $x^2 - 121$

14.  $-s^2 - 6s + 27$

15.  $3j^2 + 22j + 35$

16.  $8y^2 - 50$