

## 1.4 Factoring Trinomials (Garbage Method)

Date \_\_\_\_\_ Period \_\_\_\_\_

**Factor each completely. (Check for a GCF first)**

1)  $3m^2 - 4m + 1$

2)  $2b^2 + 5b - 12$

3)  $3x^2 + 2x - 21$

4)  $2k^2 + 3k - 5$

5)  $7x^2 - 33x - 10$

6)  $2n^2 + 25n + 50$

7)  $5n^2 + 32n + 12$

8)  $3x^2 - 7x - 6$

9)  $18x^3 - 33x^2 + 12x$

10)  $8r^3 - 48r^2 + 54r$

11)  $20r^2 - 45r + 10$

12)  $45a^2 - 30a - 40$

**Factor out the GCF.**

13)  $4x^2 + 16x$

14)  $3b^2 + 18b$

**Factor each completely. (X-Factoring)**

15)  $m^2 + 3m - 4$

16)  $r^2 + 15r + 56$