

## 8-4 Factoring Quadratic Trinomials (a is not 1)

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

**Factor each completely.**

1)  $2n^2 + n - 36$

2)  $7n^2 + n - 8$

3)  $2b^2 - 21b + 27$

4)  $7p^2 + 61p - 90$

5)  $7m^2 - 60m + 32$

6)  $5n^2 - 22n - 48$

7)  $10x^2 + 13x - 9$

8)  $10x^2 + 41x - 18$

9)  $10x^2 + 19x + 6$

10)  $4p^2 + 20p + 25$

$$11) 9m^2 + 36m + 35$$

$$12) 9b^2 - 100b + 100$$

$$13) r^2 + 10r + 9$$

$$14) k^2 + 11k + 28$$

$$15) r^2 + 6r + 8$$

$$16) x^2 - 5x + 4$$

**Factor the common factor out of each expression.**

$$17) 24 + 6x$$

$$18) 7v^3 + v$$

**Factor each completely.**

$$19) 6x^3 - 5x^2 + 24x - 20$$

$$20) 35a^3 + 42a^2 - 10a - 12$$