

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

### 9.6 Practice 1

Factor each trinomial, if possible. If the trinomials cannot be factored using integers, write *prime*.

1.  $2x^2 + 5x + 2$

2.  $3n^2 + 5n + 2$

3.  $2s^2 + 9s - 5$

4.  $3g^2 + 7g + 2$

5.  $2t^2 - 11t + 15$

6.  $2x^2 + 3x - 6$

7.  $2y^2 + y - 1$

8.  $4h^2 + 8h - 5$

9.  $4x^2 - 3x - 3$

10.  $4b^2 + 15b - 4$

11.  $9p^2 + 6p - 8$

12.  $6q^2 - 13q + 6$

13.  $3a^2 + 30a + 63$

14.  $10w^2 - 19w - 15$

**Solve each equation. Check your solutions.**

**15.**  $2x^2 + 7x + 3 = 0$

**16.**  $3w^2 + 14w + 8 = 0$

**17.**  $3n^2 - 7n + 2 = 0$

**18.**  $5d^2 - 22d + 8 = 0$

**19.**  $6h^2 + 8h + 2 = 0$

**20.**  $8p^2 - 16p = 10$

**21.**  $9y^2 + 18y - 12 = 6y$

**22.**  $4a^2 - 16a = -15$

**23.**  $10b^2 - 15b = 8b - 12$

**24.**  $6d^2 + 21d = 10d + 35$