

## 6-2 Solving Quadratic Equations by Factoring

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

Time> Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Total Time = \_\_\_\_\_

Solve for the variable by factoring each polynomial.

1.  $x^2 + 2x = 24$

2.  $x^2 + x - 40 = 7x$

3.  $2n^2 - 6n = n + 4$

4.  $4n^2 + 2n = -2n^2 + 13n - 4$

5.  $9x^2 - 2x - 1 = 6x^2$

6.  $9b^2 + 12 = -b^2 - 23b$

7.  $2n^2 - 1 = n^2 + 24$

8.  $4w^2 - 2 = -19w + 3$