

**Solve each equation by factoring.**

1)  $x^2 = 14x - 49$

2)  $n^2 + 12 = -7n$

3)  $k^2 = 24 - 5k$

4)  $v^2 = 48 + 2v$

5)  $x^2 - 11x = -24$

6)  $5v^2 + 24v = 5$

7)  $3x^2 = -64 - 32x$

8)  $2x^2 - 17x = -8$

9)  $3a^2 + 24 = 22a$

10)  $8p^2 = -1 + 9p$

**Factor each completely.**

11)  $n^2 + 8n + 16$

12)  $16b^2 + 8b + 1$

13)  $a^2 - 25$

14)  $9m^2 - 16$

15)  $4x^2 - 25$

16)  $25v^2 - 9$