Name_____

1.4 Factoring

Period_____

Factor each completely.

1) $2v^2 + 4v$

2) $k^2 + 7k + 12$

3) $n^2 - 6n + 8$

4) $x^2 - 16x + 63$

5) $8k^2 = 5k$

6) $2x^2 = 11x - 14$

7) $5p^2 - 48 = 34p$

8) $3n^2 - 40 = -7n$

Solve each equation by factoring.

9) $p^2 + 4p = 0$

10) $x^2 - 28 = 3x$

11) $r^2 - 7 = 6r$

12) $x^2 - 42 = -x$

13) $5v^2 - 3v + 6 = 8$

14) $10n^2 + 8n + 15 = 3 - 3n + 8n^2$

15) $7x^2 = -6x$

16) $14n^2 - 4 = -4 + 7n^2 - 2n$