Zeros of Quadratic Functions: Practice.

Solve each equation by factoring.

1) $n^2 - 7n + 12 = 0$

2) $n^2 - n - 12 = 0$

3) $x^2 + 5x = 0$

4) $n^2 - 13n + 40 = 0$

5) $x^2 + 8x + 5 = 5$

6) $v^2 - 10v + 14 = -2$

7) $2n^2 + 7n - 15 = 0$

8) $3x^2 - x - 24 = 0$

9) $7x^2 + 13x + 6 = 0$

10) $7r^2 - 26r + 15 = 0$

Solve each equation with the quadratic formula. State your solutions in exact and approximate form (rounded to two decimal places).

11) $6n^2 = 84 - 3n$

12) $7k^2 = 15$

13) $r^2 + 10r = 11$

14) $4x^2 - 63 = 4x$

15) $7x^2 - 23 = 0$

16) $n^2 - 8n = 13$

Answers to Zeros of Quadratic Functions: Practice.

1) $\{3, 4\}$
2) $\{4, -3\}$
3) $\{-5, 0\}$
4) $\{8, 5\}$
5) $\{-8, 0\}$
6) $\{8, 2\}$
7) $\left\{\frac{3}{2}, -5\right\}$
8) $\left\{-\frac{8}{3}, 3\right\}$
9) $\left\{-\frac{6}{7}, -1\right\}$
10) $\left\{\frac{5}{7}, 3\right\}$
11) $\left\{\frac{7}{2}, -4\right\}$
12) $\left\{\frac{\sqrt{105}}{7}, -\frac{\sqrt{105}}{7}\right\}$
13) $\{1, -11\}$
14) $\left\{\frac{9}{2}, -\frac{7}{2}\right\}$
15) $\left\{\frac{\sqrt{161}}{7}, -\frac{\sqrt{161}}{7}\right\}$
16) $\{4 + \sqrt{29}, 4 - \sqrt{29}\}$