

17.4 Homework

Solve each equation by completing the square.

1) $p^2 + 10p - 73 = 4$

Solve each equation by factoring.

2) $10m^2 - 1 = -3m$

3) $3n^2 = 24 + n$

4) $7v^2 - 24v = 16$

5) $7v^2 = 3v + 4$

Solve each equation with the quadratic formula.

6) $-10x^2 - 10 - 4x = -4x - 3$

7) $-15k^2 + 14 = -6k^2 - 4k$

8) $4x = 3 - 5x^2$

9) $-7k^2 - 22 - 6k = -6k - 9k^2$

Answers to 17.4 Homework

1) $\{-5 + \sqrt{102}, -5 - \sqrt{102}\}$

2) $\left\{-\frac{1}{2}, \frac{1}{5}\right\}$

3) $\left\{-\frac{8}{3}, 3\right\}$

4) $\left\{-\frac{4}{7}, 4\right\}$

5) $\left\{-\frac{4}{7}, 1\right\}$

6) No solution.

7) $\left\{\frac{2 - \sqrt{130}}{9}, \frac{2 + \sqrt{130}}{9}\right\}$

8) $\left\{\frac{-2 + \sqrt{19}}{5}, \frac{-2 - \sqrt{19}}{5}\right\}$

9) $\{\sqrt{11}, -\sqrt{11}\}$