

## Quadratic Formula Practice

Period \_\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $5x^2 - 10x + 5 = 0$

2)  $4m^2 + 6m - 23 = 0$

3)  $10a^2 - 3a - 3 = 0$

4)  $9k^2 - 3k + 1 = 0$

5)  $11n^2 + 3n - 2 = -4$

6)  $6x^2 - 24 = -3$

7)  $8p^2 + 3p + 12 = 3$

8)  $6b^2 + 10b + 5 = 10$

9)  $5a^2 - 32 = -12a$

10)  $5k^2 - k = 15$

11)  $3a^2 = 3a + 60$

12)  $11r^2 = 5$

13)  $6r^2 - 4r = -8$

14)  $m^2 + 5m - 8 = 12m$

15)  $2x^2 + 3 = 7x$

16)  $v^2 - 111 = -11$

## Answers to Quadratic Formula Practice

1)  $\{1\}$

2)  $\left\{\frac{-3 + \sqrt{101}}{4}, \frac{-3 - \sqrt{101}}{4}\right\}$

3)  $\left\{\frac{3 + \sqrt{129}}{20}, \frac{3 - \sqrt{129}}{20}\right\}$

4)  $\left\{\frac{1 + i\sqrt{3}}{6}, \frac{1 - i\sqrt{3}}{6}\right\}$

5)  $\left\{\frac{-3 + i\sqrt{79}}{22}, \frac{-3 - i\sqrt{79}}{22}\right\}$

6)  $\left\{\frac{\sqrt{14}}{2}, -\frac{\sqrt{14}}{2}\right\}$

7)  $\left\{\frac{-3 + 3i\sqrt{31}}{16}, \frac{-3 - 3i\sqrt{31}}{16}\right\}$

8)  $\left\{\frac{-5 + \sqrt{55}}{6}, \frac{-5 - \sqrt{55}}{6}\right\}$

9)  $\left\{\frac{8}{5}, -4\right\}$

10)  $\left\{\frac{1 + \sqrt{301}}{10}, \frac{1 - \sqrt{301}}{10}\right\}$

11)  $\{5, -4\}$

12)  $\left\{\frac{\sqrt{55}}{11}, -\frac{\sqrt{55}}{11}\right\}$

13)  $\left\{\frac{1 + i\sqrt{11}}{3}, \frac{1 - i\sqrt{11}}{3}\right\}$

14)  $\{8, -1\}$

15)  $\left\{3, \frac{1}{2}\right\}$

16)  $\{10, -10\}$