Quadratic Formula

Solve each equation by using quadratic formula.

1) $n^2 - 12n + 11 = 0$

2) $6v^2 - v - 2 = 0$

3) $p^2 + 7p - 2 = 0$

4) $y^2 + 49 = 0$

5) $3x^2 - 4x - 1 = 0$

6) $2k^2 + 6k + 5 = 0$

7) $m^2 + 12m + 34 = 7$

8) $5t^2 - 4 = 10t$

Quadratic Formula

Answer key

Solve each equation by using quadratic formula.

1) $n^2 - 12n + 11 = 0$

n = 11 and n = 1

2) $6v^2 - v - 2 = 0$

$$v = -\frac{1}{2} \text{ and } v = \frac{2}{3}$$

3) $p^2 + 7p - 2 = 0$

$$p = \frac{7 \pm \sqrt{41}}{2}$$

4) $y^2 + 49 = 0$

y = ± 7i

5) $3x^2 - 4x - 1 = 0$

$$x = \frac{-2 \pm \sqrt{7}}{3}$$

6) $2k^2 + 6k + 5 = 0$

$$k = \frac{3 + i}{2}$$

7) $m^2 + 12m + 34 = 7$

m = 3 and m = 9

8) $5t^2 - 4 = 10t$

$$t = \frac{-10 \pm 3\sqrt{20}}{10}$$