Solving Quadratic Equations

Solve each quadratic equation by square root property.

1) $9w^2 - 16 = 0$

2) $(k - 2)^2 = 25$

3) $t^2 - 81 = 0$

4) $u^2 + 72 = 0$

5) $2z^2 + 96 = 0$

6) $m^2 - 36 = 0$

7) $(x + 4)^2 - 1 = 0$

8) $5p^2 - 100 = 0$

Solving Quadratic Equations

Answer key

SQ:11

Solve each quadratic equation by square root property.

1) $9w^2 - 16 = 0$

$w = \pm\dfrac{4}{3}$

2) $(k - 2)^2 = 25$

k = −3 and k = 7

3) $t^2 - 81 = 0$

t = ±9

4) $u^2 + 72 = 0$

$u = \pm 6\sqrt{2}\ i$

5) $2z^2 + 96 = 0$

$z = \pm 4\sqrt{3}\ i$

6) $m^2 - 36 = 0$

m = ±6

7) $(x + 4)^2 - 1 = 0$

x = −5 and x = −3

8) $5p^2 - 100 = 0$

$p = \pm 2\sqrt{5}$