Solving Quadratic Equations

SQ:10

Solve each quadratic equation by square root property.

1) $x^2 - 4 = 0$

2) $v^2 + 8 = 0$

3) $25p^2 - 9 = 0$

4) $3m^2 = 48$

5) $(t + 5)^2 = 100$

6) $36y^2 - 49 = 0$

7) $u^2 + 125 = 0$

8) $4h^2 - 4 = 0$

Solving Quadratic Equations

Name _____

Score _____

Answer key

SQ:10

Solve each quadratic equation by square root property.

1) $x^2 - 4 = 0$

   x = ± 2

2) $v^2 + 8 = 0$

   v = ± 2$\sqrt{2}$ i

3) $25p^2 - 9 = 0$

   p = ± $\dfrac{3}{5}$

4) $3m^2 = 48$

   m = ± 4

5) $(t + 5)^2 = 100$

   t = 5 and t = −15

6) $36y^2 - 49 = 0$

   x = ± $\dfrac{7}{6}$

7) $u^2 + 125 = 0$

   u = ± 5$\sqrt{5}$ i

8) $4h^2 - 4 = 0$

   h = ± 1