Solving Quadratic Equations

Solve each quadratic equation by zero product property.

1) $(3x - 2)(x + 10) = 0$

2) $(m - 1)(m - 8) = 0$

3) $(k + 4)(2x + 7) = 0$

4) $(y + 6)(y - 11) = 0$

5) $(n + 3)(n - 5) = 0$

6) $(4p + 1)(2p + 3) = 0$

7) $(t - 12)(t - 6) = 0$

8) $(z - 4)(6z + 7) = 0$

Solving Quadratic Equations

Answer key

Solve each quadratic equation by zero product property.

1) $(3x - 2)(x + 10) = 0$

2) $(m - 1)(m - 8) = 0$

$x = \dfrac{2}{3}$ and $x = -10$

$m = 1$ and $m = 8$

3) $(k + 4)(2x + 7) = 0$

4) $(y + 6)(y - 11) = 0$

$x = -4$ and $x = -\dfrac{7}{2}$

$y = -6$ and $y = 11$

5) $(n + 3)(n - 5) = 0$

6) $(4p + 1)(2p + 3) = 0$

$n = -3$ and $n = 5$

$p = -\dfrac{1}{4}$ and $p = -\dfrac{3}{2}$

7) $(t - 12)(t - 6) = 0$

8) $(z - 4)(6z + 7) = 0$

$t = 12$ and $t = 6$

$z = 4$ and $z = -\dfrac{7}{6}$