

Name : \_\_\_\_\_

## Solving Quadratic Equations

ES2

Solve each quadratic equation using quadratic formula.

1)  $x^2 - 12 = x$

2)  $n^2 + 4n = 21$

3)  $19v = v^2$

$9z + 6 = 0$

5)  $2w^2 - 7w$

$= 35$

7)  $15d^2 - 2$

$4h - 5 = 0$

9)  $m^2 = 81$

10)  $k^2 + 6k + 9 = 0$

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## Answer key

# Solving Quadratic Equations

ES2

Solve each quadratic equation using quadratic formula.

1)  $x^2 - 12 = x$

$x = -3 ; x = 4$

2)  $n^2 + 4n = 21$

$n = -7 ; n = 3$

3)  $19v = v^2$

$v = 0 ; v = 19$

4)  $9z + 6 = 0$

$z = -\frac{2}{3}$

5)  $2w^2 - 7w = 3$

$w = \frac{1}{2} ; w = 3$

6)  $y^2 = 25$

$y = 5 ; y = -5$

7)  $15d^2 - 2d = 1$

$d = -\frac{2}{3} ; d = \frac{1}{5}$

8)  $4h - 5 = 0$

$h = \frac{5}{4}$

9)  $m^2 = 81$

$m = \pm 9$

10)  $k^2 + 6k + 9 = 0$

$k = -3$

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