

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

## Solving Quadratic Equations

ES1

Solve each quadratic equation using quadratic formula.

1)  $m^2 + 6m = -8$

2)  $-64 + k^2 = 0$

3)  $-4z^2 + 13z - 3 = 0$

4)  $12x^2 + 1 = -7x$

5)  $3u^2 - 2 = 5u$

6)  $-w^2 + 6w + 72 = 0$

7)  $-h^2 - 4h + 5 = 0$

8)  $2v^2 + 5v = 7$

9)  $5n^2 - 3n = 2$

10)  $-y^2 + 8y = 0$

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## Answer key

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Solve each quadratic equation using quadratic formula.

1)  $m^2 + 6m = -8$

**$m = -4 ; m = -2$**

2)  $-64 + k^2 = 0$

**$k = \pm 8$**

3)  $-4z^2 + 13z - 3 = 0$

**$z = \frac{1}{4} ; z = 3$**

4)  $12x^2 + 1 = -7x$

**$x = -\frac{1}{3} ; x = -\frac{1}{4}$**

5)  $3u^2 - 2 = 5u$

**$u = -\frac{1}{3} ; u = 2$**

6)  $-w^2 + 6w + 72 = 0$

**$w = -6 ; w = 12$**

7)  $-h^2 - 4h + 5 = 0$

**$h = -5 ; h = 1$**

8)  $2v^2 + 5v = 7$

**$v = -\frac{7}{2} ; v = 1$**

9)  $5n^2 - 3n = 2$

**$n = -\frac{2}{5} ; n = 1$**

10)  $-y^2 + 8y = 0$

**$y = 0 ; y = 8$**