

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

## Solving Quadratic Equations

MS2

Solve each quadratic equation using quadratic formula.

1)  $-6h = -h^2 - 34$

2)  $11k^2 - 4k + 8 = 6k^2$

3)  $2q^2 + 4q$

$= -19$

5)  $32n^2 - 70n$

$t + \frac{1}{6} = 0$

7)  $u^2 - 4\sqrt{3}u$

$+ 24 = -16$

9)  $v^2 + v - 12 = 0$

10)  $p^2 = -6p - 1$

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## Answer key

# Solving Quadratic Equations

MS2

Solve each quadratic equation using quadratic formula.

1)  $-6h = -h^2 - 34$

$h = 3 \pm 5i$

2)  $11k^2 - 4k + 8 = 6k^2$

$k = \frac{2 \pm 6i}{5}$

3)  $2q^2 + 4q - 19 = 0$

$q = \frac{-2 \pm \sqrt{5}}{2}$

5)  $32n^2 - 70n + 25 = 0$

$n = \frac{9 \pm i}{8}$

7)  $u^2 - 4\sqrt{3}u + 24 = -16$

$u = 2\sqrt{3} \pm i$

9)  $v^2 + v - 12 = 0$

$v = -4; v = 3$

10)  $p^2 = -6p - 1$

$p = -3 \pm 2\sqrt{2}$

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