

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

## Solving Quadratic Equations

Sheet 2

Solve each quadratic equation using substitution.

1)  $10(4d + 3)^2 + 12(4d + 3) = -2$

2)  $(2h)^2 + 5(2h) = -8$

3)  $3\left(\frac{2k}{3}\right)^2 - 1 =$

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$= \frac{2}{m-4}$

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5)  $8(6t)^2 = 10(6t)$

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$6(\sqrt{5}n)$

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## Answer key

# Solving Quadratic Equations

Sheet 2

Solve each quadratic equation using substitution.

1)  $10(4d + 3)^2 + 12(4d + 3) = -2$

2)  $(2h)^2 + 5(2h) = -8$

$d = -1 ; d =$

# PREVIEW

3)  $3\left(\frac{2k}{3}\right)^2 - 1 =$

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$= \frac{2}{m-4}$

$k = \frac{1 \pm \sqrt{5}}{4}$

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$= \frac{14}{3}$

5)  $8(6t)^2 = 10(6t)$

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$6(\sqrt{5}n)$

$t = -\frac{1}{12} ; t = \frac{7}{24}$

$n = \frac{\sqrt{5}}{5} ; n = \sqrt{5}$