

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

## Solving Quadratic Equations

Sheet 3

Solve each quadratic equation using substitution.

1)  $\frac{(3z + 5)^2 + 26}{15} = 3z + 5$

2)  $(2p + 1)^2 = 7(2p + 1) - 12$

3)  $-2 = -7(\sqrt{6}r)$

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$5 - (8q)^2$

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5)  $4 + \left(\frac{s}{6}\right)^2 =$

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$) + 7 = 0$

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## Answer key

Sheet 3

# Solving Quadratic Equations

Solve each quadratic equation using substitution.

1)  $\frac{(3z + 5)^2 + 26}{15} = 3z + 5$

2)  $(2p + 1)^2 = 7(2p + 1) - 12$

$z = -1 ; z =$

# PREVIEW

$\frac{3}{2}$

3)  $-2 = -7(\sqrt{6}r)$

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$5 - (8q)^2$

$r = -\frac{\sqrt{6}}{21} ; r$

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$= -\frac{5}{8}$

5)  $4 + \left(\frac{s}{6}\right)^2 =$

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$) + 7 = 0$

$s = 6 ; s = 24$

$g = \frac{-5 \pm \sqrt{3}i}{6}$