

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

## Completing the Square

DS1

Solve each quadratic equation by completing the square.

1)  $(k + 3)^2 + 8(k + 3) = -12$

2)  $12\left(\frac{5}{6}n - 1\right) + \left(\frac{5}{6}n - 1\right)^2 - 13 = 0$

3)  $-8\left(\frac{q + 2}{2}\right) + 2$

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$)^2 + 8(0.5x) = 5.6$

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5)  $(4r - 2)^2 + 1 =$

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$) - 3 = 0$

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## Answer key

# Completing the Square

DS1

Solve each quadratic equation by completing the square.

1)  $(k + 3)^2 + 8(k + 3) = -12$

2)  $12\left(\frac{5}{6}n - 1\right) + \left(\frac{5}{6}n - 1\right)^2 - 13 = 0$

$k = -9; k = -$

$n = \frac{12}{5}$

# PREVIEW

3)  $-8\left(\frac{q+2}{2}\right) + 2$

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$)^2 + 8(0.5x) = 5.6$

$q = 2 \pm 2i$

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$= 2$

5)  $(4r - 2)^2 + 1 =$

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$) - 3 = 0$

$r = \frac{5 \pm \sqrt{3}i}{8}$

$v = -\frac{4}{3}; v = 1$