

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

## Completing the Square

MS3

Solve each quadratic equation by completing the square.

1)  $q^2 + q - \frac{3}{2} = 0$

2)  $\frac{2}{3}z^2 - 2z = -5$

3)  $2(2k^2 + 1$

# PREVIEW

$n - 4 = 0$

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5)  $\frac{3}{4}p^2 + \frac{1}{2}$

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$= -13r$

7)  $3n^2 - 5 = 14n$

8)  $5x^2 = -3x - 5$

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## Answer key

# Completing the Square

MS3

Solve each quadratic equation by completing the square.

1)  $q^2 + q - \frac{3}{2} = 0$

2)  $\frac{2}{3}z^2 - 2z = -5$

$q = \frac{-1 \pm \sqrt{7}}{2}$

$z = \frac{3 \pm \sqrt{21}i}{2}$

3)  $2(2k^2 + 1)$

# PREVIEW

$n - 4 = 0$

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$k = \frac{1}{4}; k$

$m = \frac{4}{9}$

5)  $\frac{3}{4}p^2 + \frac{1}{2}$

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$r = -13r$

$p = -1; p$

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$r = -\frac{3}{7}$

7)  $3n^2 - 5 = 14n$

8)  $5x^2 = -3x - 5$

$n = -\frac{1}{3}; n = 5$

$x = \frac{-3 \pm \sqrt{91}i}{10}$