

Name: _____

Completing the Square

MS1

Solve each quadratic equation by completing the square.

1) $6(x^2 + 2) = -17x$

2) $3m - 1 = -10m^2$

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

PREVIEW

$-\frac{1}{16} = 0$

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5) $4u^2 - 3u$

$w - 8$

7) $5z^2 + 8 = -14z$

8) $\frac{8}{9}n^2 + \frac{2}{3}n - 3 = 0$

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Answer key

Completing the Square

MS1

Solve each quadratic equation by completing the square.

1) $6(x^2 + 2) = -17x$

2) $3m - 1 = -10m^2$

$x = -\frac{3}{2}; x = 4$

$m = -\frac{1}{5}; m = \frac{1}{5}$

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

$p = -\frac{1}{16} = 0$

5) $4u^2 - 3u$

$w = 8$

$u = -\frac{1}{2};$

$23i$

7) $5z^2 + 8 = -14z$

8) $\frac{8}{9}n^2 + \frac{2}{3}n - 3 = 0$

$z = -2; z = -\frac{4}{5}$

$n = -\frac{9}{4}; n = \frac{3}{2}$

PREVIEW

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