

Name: _____

Completing the Square

MS2

Solve each quadratic equation by completing the square.

1) $8y^2 + 3 = -10y$

2) $\frac{1}{2}n^2 + \frac{1}{4}n = -3$

3) $40g^2 + 19g = -2$

5) $2v + \frac{3}{5} = -\frac{16}{3} = 0$

7) $10u^2 + 11u + 3 = 0$

8) $w(w - 3) + 1 = 0$

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Answer key

Completing the Square

MS2

Solve each quadratic equation by completing the square.

1) $8y^2 + 3 = -10y$

2) $\frac{1}{2}n^2 + \frac{1}{4}n = -3$

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

$n = -1 \pm \sqrt{95}i$

3) $40g^2 + 19g = -2$

PREVIEW

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

$= -2$

$= 1$

5) $2v + \frac{3}{5} = 1$

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$v = \frac{16}{3} = 0$

$v = \frac{-5 \pm \sqrt{17}}{1}$

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$= 4$

7) $10u^2 + 11u + 3 = 0$

8) $w(w - 3) + 1 = 0$

$u = -\frac{3}{5}; u = -\frac{1}{2}$

$w = \frac{3 \pm \sqrt{5}}{2}$