

Name: _____

Completing the Square

DS3

Solve each quadratic equation by completing the square.

1) $-2\left(\frac{1}{t}\right)^2 + \left(\frac{1}{t}\right) + 6 = 0$

2) $15(9y) - 3(9y)^2 - 12 = 0$

3) $\left(\frac{u+5}{4}\right)^2 = 36$

PREVIEW
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$2 = -(p+3)^2$

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5) $(1 + \sqrt{20}h)^2 +$

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$4\left(\frac{5}{2}w\right) + 8 = 0$

Name: _____

Answer key

Completing the Square

DS3

Solve each quadratic equation by completing the square.

1) $-2\left(\frac{1}{t}\right)^2 + \left(\frac{1}{t}\right) + 6 = 0$

2) $15(9y) - 3(9y)^2 - 12 = 0$

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

PREVIEW

3) $\left(\frac{u+5}{4}\right)^2 = 36$

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$2 = -(p+3)^2$

$u = -21; u = 17$

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5) $(1 + \sqrt{20}h)^2 +$

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$4\left(\frac{5}{2}w\right) + 8 = 0$

$h = -\frac{\sqrt{5}}{2}; h = -\frac{3\sqrt{5}}{10}$

$w = -\frac{4}{5}; w = -\frac{8}{25}$