

Name : _____

Quadratic Equation | Factoring

DS3

Solve each quadratic equation using factoring.

1) $14(8g) = -45 - (8g)^2$

2) $4 + \left(\frac{n}{6}\right)^2 = 5\left(\frac{n}{6}\right)$

3) $4(d + 3)^2 + 3$

$w)^2 + 5(\sqrt{6}w)$

5) $\frac{(3s + 5)^2 + 2}{15}$

-16

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Solve each quadratic equation using factoring.

1) $14(8g) = -45 - (8g)^2$

2) $4 + \left(\frac{n}{6}\right)^2 = 5\left(\frac{n}{6}\right)$

$$g = -\frac{9}{8}; g = -\frac{5}{8}$$

$$n = 6; n = 24$$

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3) $4(d + 3)^2 + 3$

$(w)^2 + 5(\sqrt{6}w)$

$$d = -\frac{11}{4}; d = \frac{5}{4}$$

$$w = \frac{\sqrt{6}}{6}$$

5) $\frac{(3s + 5)^2 + 2}{15}$

-16

$$s = -1; s = \frac{8}{3}$$

$$k = \frac{-7 \pm 4i}{2}$$