

Name : _____

Quadratic Equation | Factoring

DS1

Solve each quadratic equation using factoring.

1) $(3p + 1)^2 = -1$

2) $(-5 + 2s)^2 + 3 = \frac{19(-5 + 2s)}{4}$

3) $\left(\frac{3}{m}\right)^2 + \left(\frac{3}{m}\right)$

$2(4z + 9) - 3 = 0$

5) $(7q)^2 - 10 =$

$^2 + 10(\sqrt{2}t)$

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Answer key

Quadratic Equation | Factoring

DS1

Solve each quadratic equation using factoring.

1) $(3p + 1)^2 = -1$

2) $(-5 + 2s)^2 + 3 = \frac{19(-5 + 2s)}{4}$

$p = \frac{-1 \pm i}{3}$

$s = \frac{23}{8}; s = \frac{9}{2}$

3) $\left(\frac{3}{m}\right)^2 + \left(\frac{3}{m}\right)$

$2(4z + 9) - 3 = 0$

$m = -\frac{3}{4}; n$

-2

5) $(7q)^2 - 10 =$

$^2 + 10(\sqrt{2}t)$

$q = -\frac{2}{7}; q = \frac{5}{7}$

$t = \frac{\sqrt{2}}{4}; t = \frac{3\sqrt{2}}{8}$

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