

Name : _____

Quadratic Equation | Factoring

DS2

Solve each quadratic equation using factoring.

1) $(\sqrt{5}u)^2 + 5 = 6(\sqrt{5}u)$

2) $10(4x + 3)^2 + 12(4x + 3) = -2$

3) $(6h - 2)^2 + 1$

$:\left(\frac{2}{3v}\right)$

5) $9(r - 4) - 3 =$

$13(6 + y) = \frac{7}{2}$

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Answer key

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Solve each quadratic equation using factoring.

1) $(\sqrt{5}u)^2 + 5 = 6(\sqrt{5}u)$

2) $10(4x + 3)^2 + 12(4x + 3) = -2$

$u = \frac{\sqrt{5}}{5}; u = \sqrt{5}$

$x = -1; x = -\frac{4}{5}$

3) $(6h - 2)^2 + 1$

$3v = \left(\frac{2}{3v}\right)$

$h = \frac{2 \pm 3\sqrt{2}}{6}$

$= \frac{2}{9}$

5) $9(r - 4) - 3 =$

$13(6 + y) = \frac{7}{2}$

$r = \frac{11}{3}; r = \frac{14}{3}$

$y = -\frac{19}{2}; y = -\frac{23}{4}$

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