

Name : _____

Solving Quadratic Equations by Factoring

Practice Worksheet

① $6(x + 1)^2 + 7x = -9$

③ $2x^2 - 15x + 7 = 0$

⑤ $3x^2 - 18x - 21 = 0$

⑦ $x^2 - 11x + 19 = -5$

② $3x(x - 5) + 16 = -x$

④ $2x^2 + 7x + 6 = 0$

⑥ $15x^2 + 4x - 4 = 0$

⑧ $x^2 + 8x = -15$

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Answers

① $6(x + 1)^2 + 7x = -9$

$\left(-\frac{3}{2}, -\frac{5}{3}\right)$

③ $2x^2 - 15x + 7 = 0$

$\left(\frac{1}{2}, 7\right)$

⑤ $3x^2 - 18x - 21 = 0$

$(7, -1)$

⑦ $x^2 - 11x + 19 = -5$

$(3, 8)$

② $3x(x - 5) + 16 = -x$

$\left(\frac{8}{3}, 2\right)$

④ $2x^2 + 7x + 6 = 0$

$\left(-\frac{3}{2}, -2\right)$

⑥ $15x^2 + 4x - 4 = 0$

$\left(-\frac{2}{3}, \frac{2}{5}\right)$

⑧ $x^2 + 8x = -15$

$(-5, -3)$
