

Name :

Solve by Factoring Quadratic Equations

Solve the given equations.

① $9x^2 - 24x = -16$

② $3x^2 - 8x + 5 = 0$

③ $x^2 + x - 42 = 0$

④ $x^2 - 2x - 15 = 0$

⑤ $x^2 + 9x + 18 = 0$

⑥ $x^2 - 6x + 4 = -1$

⑦ $2x^2 - 38x + 176 = 0$

⑧ $15x^2 + 1 = 8x$

Solve by Factoring Quadratic Equations

Answers

① $9x^2 - 24x = -16$

$$\left(\frac{4}{3}\right)$$

② $3x^2 - 8x + 5 = 0$

$$\left(\frac{5}{3}, 1\right)$$

③ $x^2 + x - 42 = 0$

$$(-7, 6)$$

④ $x^2 - 2x - 15 = 0$

$$(-3, 5)$$

⑤ $x^2 + 9x + 18 = 0$

$$(-6, -3)$$

⑥ $x^2 - 6x + 4 = -1$

$$(5, 1)$$

⑦ $2x^2 - 38x + 176 = 0$

$$(11, 8)$$

⑧ $15x^2 + 1 = 8x$

$$\left(\frac{1}{3}, \frac{1}{5}\right)$$
