

Name: _____

Solving Quadratics by Factoring

Solve each equation by factoring.

① $(x + 2)(2x + 5) = 0$

② $(2x + 3)(4x + 3) = 0$

③ $x^2 = 11x - 28$

④ $x^2 + 5x + 4 = 0$

⑤ $10x^2 = 27x - 18$

⑥ $8x^2 + 21 = -59x$

⑦ $28x^2 = -96 - 184x$

⑧ $35x^2 - 22x + 7 = 4$

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Solving Quadratics by Factoring

Answers

① $(x + 2)(2x + 5) = 0$

$(-2, -\frac{5}{2})$

② $(2x + 3)(4x + 3) = 0$

$(-\frac{3}{2}, -\frac{3}{4})$

③ $x^2 = 11x - 28$

$(7, 4)$

④ $x^2 + 5x + 4 = 0$

$(-1, -4)$

⑤ $10x^2 = 27x - 18$

$(\frac{6}{5}, \frac{3}{2})$

⑥ $8x^2 + 21 = -59x$

$(-\frac{3}{8}, -7)$

⑦ $28x^2 = -96 - 184x$

$(-\frac{4}{7}, -6)$

⑧ $35x^2 - 22x + 7 = 4$

$(\frac{1}{5}, \frac{3}{7})$