

Name: \_\_\_\_\_

# Factoring Quadratic Equations

Factor each equation if possible.

①  $5x^2 = 13x + 6$

\_\_\_\_\_

②  $x^2 - 2x - 8 = 0$

\_\_\_\_\_

③  $2x^2 - 10x + 8 = 0$

\_\_\_\_\_

④  $-3x^2 + 5x - 2 = 0$

\_\_\_\_\_

⑤  $15x^2 - 3x = 3 - 7x$

\_\_\_\_\_

⑥  $x^2 + 8x = -15$

\_\_\_\_\_

⑦  $3x^2 = 4x + 7$

\_\_\_\_\_

⑧  $(x - 1)(x + 1) = 5(x + 1)$

\_\_\_\_\_

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# Factoring Quadratic Equations

## Answers

①  $5x^2 = 13x + 6$

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

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②  $x^2 - 2x - 8 = 0$

$(4, -2)$

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③  $2x^2 - 10x + 8 = 0$

$(1, 4)$

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④  $-3x^2 + 5x - 2 = 0$

$\left(1, \frac{2}{3}\right)$

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⑤  $15x^2 - 3x = 3 - 7x$

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

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⑥  $x^2 + 8x = -15$

$(-5, -3)$

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⑦  $3x^2 = 4x + 7$

$\left(-1, \frac{7}{3}\right)$

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⑧  $(x - 1)(x + 1) = 5(x + 1)$

$(6, -1)$

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