

Name: _____

Worksheet on Factoring Quadratics

Factor the quadratic expressions completely.

1 $6x^2 + 13x - 15$

2 $5x^2 - 7x + 2$

3 $4x^2 + 76x + 360$

4 $5x^2 + 43x - 18$

Solve the quadratic equations by factoring.

5 $(x + 2)(2x + 5) = 0$

6 $35x^2 + 22x + 3 = 0$

7 $7x^2 - 14x = -7$

8 $10x^2 = 27x - 18$

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Answers

1 $6x^2 + 13x - 15$

$(6x - 5)(x + 3)$

2 $5x^2 - 7x + 2$

$(5x - 2)(x - 1)$

3 $4x^2 + 76x + 360$

$4(x + 10)(x + 9)$

4 $5x^2 + 43x - 18$

$(5x - 2)(x + 9)$

5 $(x + 2)(2x + 5) = 0$

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

6 $35x^2 + 22x + 3 = 0$

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

7 $7x^2 - 14x = -7$

(1)

8 $10x^2 = 27x - 18$

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