



# Quadratic Equations

Name \_\_\_\_\_

Score \_\_\_\_\_

RQ:04

Express the given equations in quadratic form as  $ax^2 + bx + c = 0$ .

1)  $x(x + 2) = x(5 - 3x)$

2)  $\frac{6}{7x} = 1 - x$

3)  $(x + 3)(2x - 3) = 0$

4)  $\frac{1}{7-x} = \frac{x}{x+4}$

5)  $\frac{2}{x^2}(x + 1) = 3$

6)  $\frac{1}{x} - x = 0$

7)  $3(x^2 + 4) = x(x - 1) + 3$

8)  $7 - 5x^2 - 2x = 6x - 4$



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## Answer key

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Express the given equations in quadratic form as  $ax^2 + bx + c = 0$ .

1)  $x(x + 2) = x(5 - 3x)$

$$4x^2 - 3x = 0$$

3)  $(x + 3)(2x - 3) = 0$

$$2x^2 + 3x - 9 = 0$$

5)  $\frac{2}{x^2}(x + 1) = 3$

$$3x^2 - 2x - 2 = 0$$

7)  $3(x^2 + 4) = x(x - 1) + 3$

$$2x^2 + x + 9 = 0$$

2)  $\frac{6}{7x} = 1 - x$

$$7x^2 - 7x + 6 = 0$$

4)  $\frac{1}{7-x} = \frac{x}{x+4}$

$$x^2 - 8x - 4 = 0$$

6)  $\frac{1}{x} - x = 0$

$$x^2 - 1 = 0$$

8)  $7 - 5x^2 - 2x = 6x - 4$

$$5x^2 + 8x - 11 = 0$$