



# Quadratic Equations

Name \_\_\_\_\_

Score \_\_\_\_\_

RQ:05

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

1)  $3x + 4 = \frac{2}{x}$

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

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

4)  $\frac{6}{x} + 5x = 3$

5)  $\frac{2x}{x+1} + \frac{x}{3x-4} = 0$

6)  $1 + 3x^2 = 6 - x - x^2$

7)  $(4x - 5)^2$

8)  $2x = \frac{1}{x}(4 + x^2)$



# Quadratic Equations

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## Answer key

RQ:05

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

1)  $3x + 4 = \frac{2}{x}$

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

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

**$x^2 - 5x + 1 = 0$**

5)  $\frac{2x}{x+1} + \frac{x}{3x-4} = 0$

**$7x^2 - 7x = 0$  or  $x^2 - x = 0$**

7)  $(4x - 5)^2$

**$16x^2 - 40x + 25 = 0$**

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

**$5x^2 - 4 = 0$**

4)  $\frac{6}{x} + 5x = 3$

**$5x^2 - 3x + 6 = 0$**

6)  $1 + 3x^2 = 6 - x - x^2$

**$4x^2 + x - 5 = 0$**

8)  $2x = \frac{1}{x}(4 + x^2)$

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