

Quadratic Equation - Standard Form

Sheet 1

Express the given equation in standard form ($ax^2 + bx + c = 0$). Identify the values of a, b and c.

1) $(2x - 1)(x + 3) = 0$

a = _____, b = _____, c = _____

2) $8x - 3x^2 = -15 - 4x^2$

a = _____, b = _____, c = _____

3) $-\frac{5}{3}x^2 + 3x + 11 = -9 + \frac{25}{3}x^2$

a = _____, b = _____, c = _____

4) $\frac{x+4}{7} = x^2 + 1$

a = _____, b = _____, c = _____

5) $4x^2 - 3.1 = 1.9 - 12x$

a = _____, b = _____, c = _____

6) $\frac{1}{4} - 6x^2 = \frac{9}{4}$

a = _____, b = _____, c = _____

7) $\frac{x}{\sqrt{3}} = \frac{\sqrt{3}(x-2)}{8x}$

a = _____, b = _____, c = _____

8) $-4.8x + 2(-2.5x^2) + 16 = 2.2x$

a = _____, b = _____, c = _____

Quadratic Equation - Standard Form

Sheet 1

Express the given equation in standard form ($ax^2 + bx + c = 0$). Identify the values of a, b and c.

1) $(2x - 1)(x + 3) = 0$

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

a = 2 , b = 5 , c = -3

2) $8x - 3x^2 = -15 - 4x^2$

$x^2 + 8x + 15 = 0$

a = 1 , b = 8 , c = 15

3) $-\frac{5}{3}x^2 + 3x + 11 = -9 + \frac{25}{3}x^2$

$10x^2 - 3x - 20 = 0$

a = 10 , b = -3 , c = -20

4) $\frac{x+4}{7} = x^2 + 1$

$7x^2 - x + 3 = 0$

a = 7 , b = -1 , c = 3

5) $4x^2 - 3.1 = 1.9 - 12x$

$4x^2 + 12x - 5 = 0$

a = 4 , b = 12 , c = -5

6) $\frac{1}{4} - 6x^2 = \frac{9}{4}$

$6x^2 + 2 = 0$

a = 6 , b = 0 , c = 2

7) $\frac{x}{\sqrt{3}} = \frac{\sqrt{3}(x-2)}{8x}$

$8x^2 - 3x + 6 = 0$

a = 8 , b = -3 , c = 6

8) $-4.8x + 2(-2.5x^2) + 16 = 2.2x$

$5x^2 + 7x - 16 = 0$

a = 5 , b = 7 , c = -16