

Quadratic Equations | Standard Form

A) Express each quadratic equation in standard form.

1) $4(1 + 4x) = x(x - 7)$

2) $x(-18 + 9x) - 14 = -1$

3) $17 + 2x^2 - 9x = 17 - 3x$

4) $11 + 12x^2 = 10 - 15x$

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

1) $3x^2 - 4 = 2x - 9$

2) $2(2x - 5) = -4x(x - 1)$

$a = \underline{\hspace{2cm}}, b = \underline{\hspace{2cm}}, c = \underline{\hspace{2cm}}$

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C) 1) Which of the following quadratic equations is not in standard form?

i) $5x^2 + 12x + 9 = 0$

ii) $12x^2 + 9x + 5 = 0$

iii) $9x^2 = 12 + 5x$

2) Which of the following quadratic equations is in standard form?

i) $8x^2 - 7x - 20 = 0$

ii) $20 + 8x = -7x^2$

iii) $7 + 20x^2 = 8x$