Chapter- 4: Quadratic Equations

Exercise 4.1 (Page 73 of Grade 10 NCERT)

Q1. Check whether the followings are quadratic equations:

i) $(x+1)^2 = 2(x-3)$

ii) $(x^2 - 2x) = (-2)(3-x)$

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

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

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

vi) $x^2 + 3x + 1 = (x-2)^2$

vii) $(x+2)^3 = 2x(x^2 - 1)$

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

Difficulty Level: Easy

Reasoning:
Standard form of a quadratic equation is $ax^2 + bx + c = 0$ where $a \neq 0$ and degree of quadratic equation is 2.

What is the unknown?
To check whether the given equation is a quadratic equation.

Known:
i) $(x+1)^2 = 2(x-3)$

Solution:

Since $(a+b)^2 = a^2 + b^2 + 2ab$

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

$x^2 + 2x + 1 - (2x - 6) = 0$

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

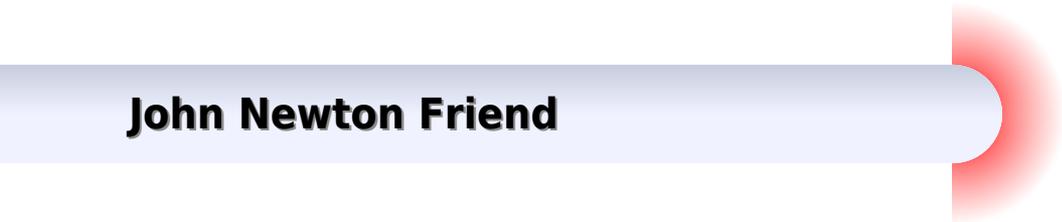$x^2 + 7 = 0$

Here, the degree of $x^2 + 7 = 0$ is 2.

$\therefore$ It is a quadratic equation.

Chapter 4 Solutions

John Newton Friend

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