

Quadratic Equations

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Class 10th Maths - Chapter 4

This problem is from Exercise 4.3 (1)iv

1. Find the roots of the quadratic equation if they exist:

$$2x^2 + x + 4 = 0$$

Solution:

$$\text{Given Data : } (2x^2 - 7x + 3 = 0)$$

$$\text{determinant} = (b^2 - 4ac) = (1)^2 - 4(2)(4) = -31$$

since the discriminant value is less than 0 the above equation has no real roots