

Mathematics

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(Chapter – 2) (Polynomials)(Exemplar Problems)

(Class – IX)

Exercise 2.3

Question 40:

Give possible expressions for the length and breadth of the rectangle whose area is given by $4a^2 + 4a - 3$.

Answer 40:

(i). Given that:

$$\text{Area} = 4a^2 + 4a - 3$$

$$= 4a^2 + 6a - 2a - 3$$

$$= 2a(2a + 3) - 1(2a + 3)$$

$$= (2a + 3)(2a - 1)$$

$$\Rightarrow \text{Length} = 2a + 3 \quad \text{and} \quad \text{Breadth} = 2a - 1$$

