

Polynomials - Exercise 2.1

Exercise 2.1 with independently verified solutions.

CHAPTER

Polynomials

RESOURCE

NCERT Exercises

SOURCE

NCERT Mathematics, Reprint 2026-27

PART 1

Verified NCERT questions and solutions

Verified NCERT questions and solutions

Solutions are checked independently and follow the supplied NCERT chapter edition.

QUESTION

Question 1

geometrical meaning of zeroes · polynomial graphs

The graphs of $y = p(x)$ are given in Figure 2.10 for some polynomials $p(x)$. Find the number of zeroes of $p(x)$ in each case.

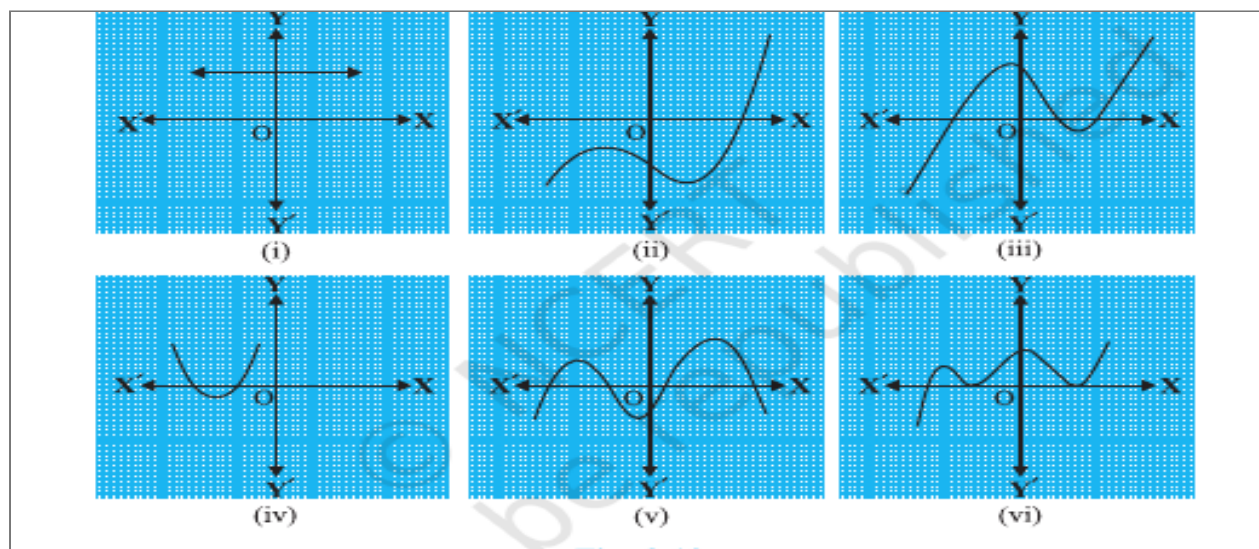


Figure 2.10: graphs for Exercise 2.1.

Solution

1. The graph does not meet the x-axis, so it has 0 zeroes.

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2. The graph meets the x-axis once, so it has 1 zero.
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3. The graph meets the x-axis three times, so it has 3 zeroes.
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4. The graph meets the x-axis twice, so it has 2 zeroes.
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5. The graph meets the x-axis four times, so it has 4 zeroes.
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6. The graph meets the x-axis three times, so it has 3 zeroes.

Final answer

The numbers of zeroes are 0, 1, 3, 2, 4 and 3 respectively.