MATH-O-MANIA
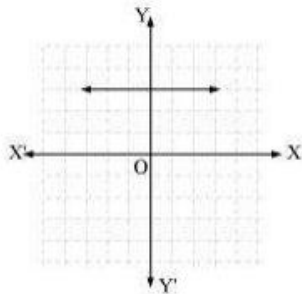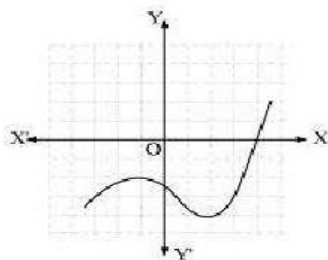
Exercises 2.1 (Polynomials)

1. The graphs of y = p(x) are given in following figure, for some polynomials p(x). Find the number of zeroes of p(x), in each case.
   (i)

Solution (i) The number of zeroes is 0 as the graph does not cut the x-axis at any point.

(ii)

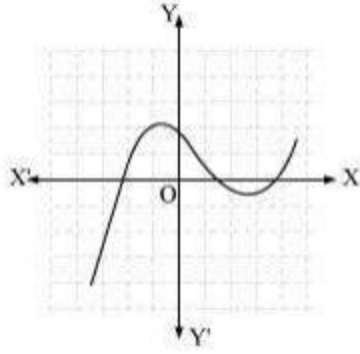Solution (ii) :- The number of zeroes is 1 as the graph intersects the x-axis at only 1 point.

(iii)

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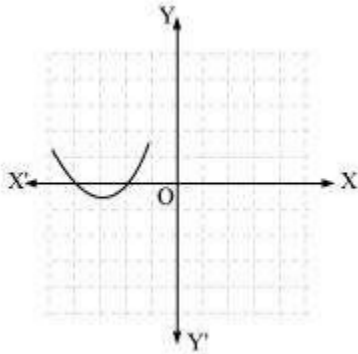8740060609   9529238688
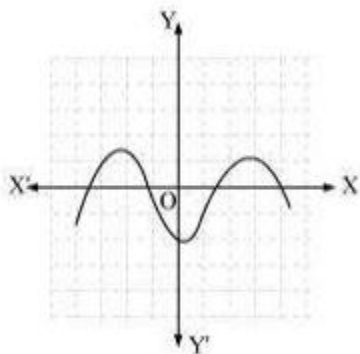   D-2 Mukherji Colony Shastri Nagar, Jaipur

Solution (iii) :-The number of zeroes is 3 as the graph intersects the *x*-axis at 3 points.

(IV)

Solution (iv) :- The number of zeroes is 2 as the graph intersects the *x*-axis at 2 points.

(V) :-

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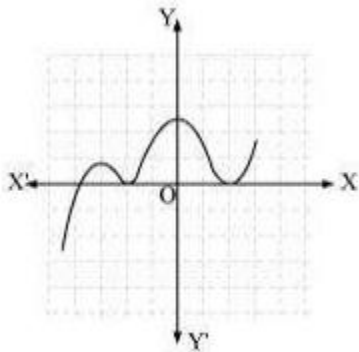8740060609   9529238688

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Solution (v) :- The number of zeroes is 4 as the graph intersects the *x*-axis at 4 points.

(VI)

Solution (vi) :- The number of zeroes is 3 as the graph intersects the *x*-axis at 3 points.

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