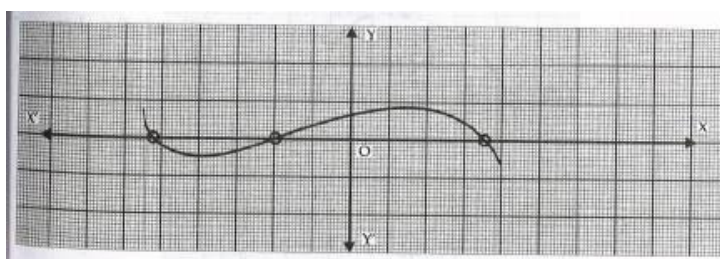
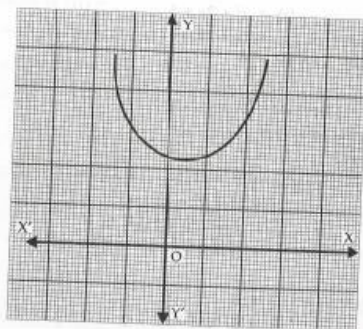


POLYNOMIALS**GRAPH OF ZEROS OF POLYNOMIAL****EXERCISE**

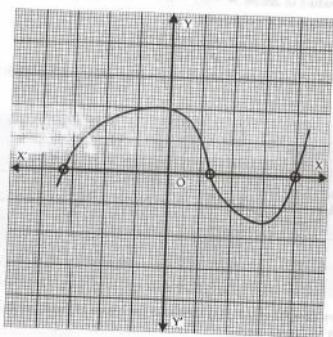
- Q.1** Write the number of zeroes of the polynomial $y = f(x)$ whose graph is given in the figure.



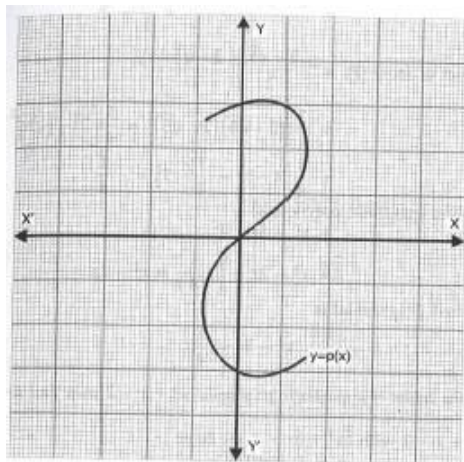
- Q.2** The graph of $y = f(x)$ is given in figure. How many zeroes are there of $f(x)$?



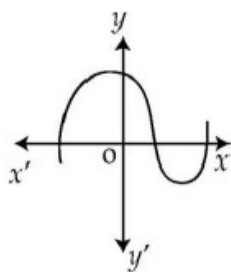
- Q.3** The graph of $y = f(x)$ is given in the figure. What is the number of zeroes of $f(x)$?



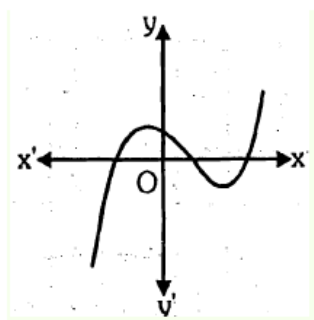
Q.4 What is the number of zeroes of the polynomial $y = p(x)$?



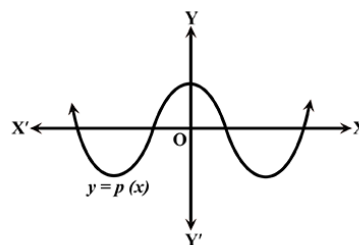
Q.5 The graph of $y = p(x)$ is given below The number of zeroes of $p(x)$ is :



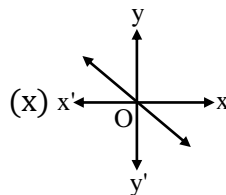
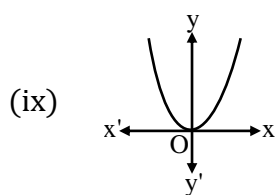
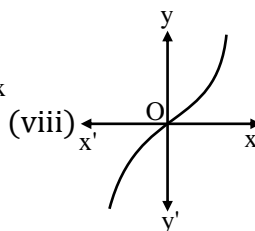
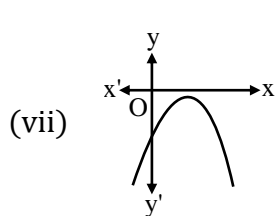
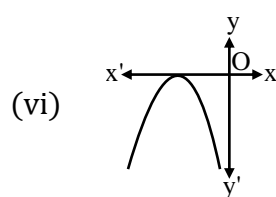
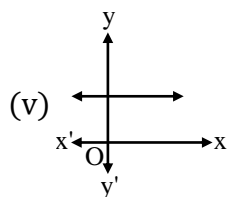
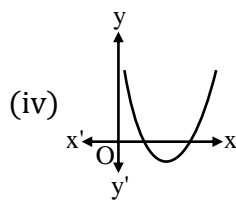
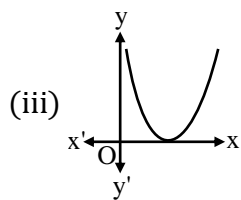
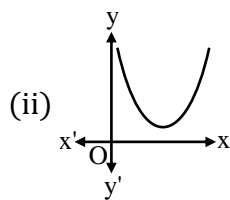
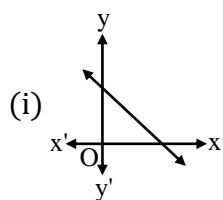
Q.6 Look at the graph given. It is the graph of $y = p(x)$, where $p(x)$ is a polynomial. Find the number of zeros of $p(x)$.



Q.7 From the graph given below, $y = p(x)$ has..... zeros.



Q.8 Which of the following correspond to the graph to a linear or a quadratic polynomial and find the number of zeroes of polynomial.



ANSWER KEY

5. $y = p(x)$ is 3.
6. The graph intersects the X- axis at three points. Thus, the polynomial has three zeros
7. $p(x)$ has 4 zeros
- 8 (i) The graph is a straight line so the graph is of a linear polynomial. The number of zeroes is one as the graph intersects the x-axis at one point only.
- (ii) The graph is a parabola. So, this is the graph of quadratic polynomial. The number of zeroes is zero as the graph does not intersect the x-axis.
- (iii) Here the polynomial is quadratic as the graph is a parabola. The number of zeroes is one as the graph intersects the x-axis at one point only (two coincident points).
- (iv) Here, the polynomial is quadratic as the graph is a parabola. The number of zeroes is two as the graph intersects the x-axis at two points.
- (v) The polynomial is linear as the graph is straight line. The number of zeroes is zero as the graph does not intersect the x-axis.
- (vi) The polynomial is quadratic as the graph is a parabola. The number of zeroes is 1 as the graph intersects the x-axis at one point (two coincident points) only.
- (vii) The polynomial is quadratic as the graph is a parabola. The number of zeroes is zero, as the graph does not intersect the x-axis.
- (viii) Polynomial is neither linear nor quadratic as the graph is neither a straight line nor a parabola is one as the graph intersects the x-axis at one point only.
- (ix) Here, the polynomial is quadratic as the graph is a parabola. The number of zeroes is one as the graph intersects the x-axis at one point only (two coincident points).
- (x) The polynomial is linear as the graph is a straight line. The number of zeroes is one as the graph intersects the x-axis at only one point.