

Zeros of Polynomial

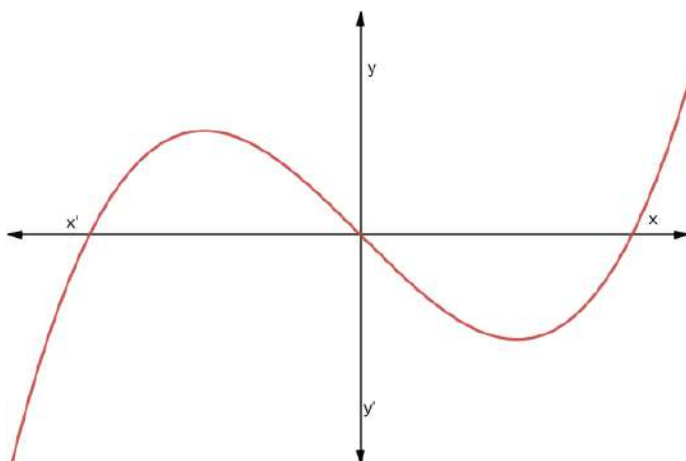
Multiple choice questions

- 1) A quadratic polynomial has
 - a) 1 zero
 - b) 2 zeros
 - c) No zero
 - d) at most 2 zeros

- 2) In quadratic polynomial $ax^2 + bx + c$, $c \neq 0$, if zeros are of equal sign, then is a polynomial.
 - a) c and a have opposite sign
 - b) c and b have same sign
 - c) c and a have same sign
 - d) c and b have opposite sign

- 3) In quadratic polynomial $ax^2 + bx + c$, $c \neq 0$, if both zeros are negative, then
 - a) a , b and c all have same sign
 - b) a and b have same sign
 - c) a and c have opposite sign
 - d) b and c have same sign

- 4) Find the number of zeros from the following graph of a polynomial.



- a) 2
- b) 3
- c) 4

d) 1

5) The graph of quadratic polynomial $ax^2 + bx + c$, $c \neq 0$, is a parabola which opens upward if

- a) $a > 0$
- b) $a \leq 0$
- c) $a \geq 0$
- d) $a < 0$

6) The graph of quadratic polynomial $ax^2 + bx + c$, $c \neq 0$, is a parabola which opens downward if

- a) $a > 0$
- b) $a < 0$
- c) $a \geq 0$
- d) $a \leq 0$

7) If graph of a quadratic polynomial does not intersect x-axis at any point, then polynomial has

- a) 1 zero
- b) 2 zeros
- c) 3 zeros
- d) No zeros

8) Number of zeros at which graph of $y = x + 5$ intersects x - axis are

- a) 1
- b) 2
- c) 3
- d) 0

9) Zeros of polynomial $x^2 - 25$, are

- a) 5 and 5
- b) 5 and -5
- c) 2 and -5
- d) -5 and -5

10) A polynomial of degree n has number of zeros

- a) equal to n
- b) less than n
- c) less than or equal to n
- d) greater than or equal to n