Zeros of Polynomial

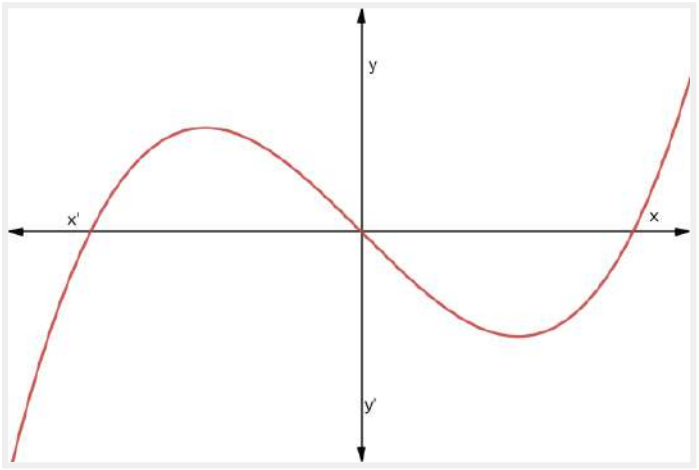
Multiple choice questions

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 equal, then
   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≤0
   c) a≥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≥0
   d) a≤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