

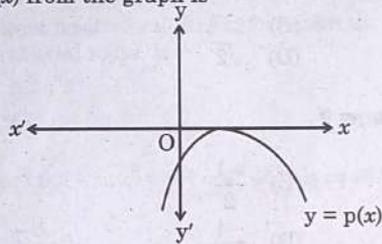


5. The distribution below gives the marks obtained by 80 students on a test :

Marks	Less than 10	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60
Number of Students	3	12	27	57	75	80

The modal class of this distribution is :

- (A) 10 – 20 (B) 20 – 30  
(C) 30 – 40 (D) 50 – 60
6. The curved surface area of a cone having height 24 cm and radius 7 cm, is  
(A)  $528 \text{ cm}^2$  (B)  $1056 \text{ cm}^2$   
(C)  $550 \text{ cm}^2$  (D)  $500 \text{ cm}^2$
7. The end-points of a diameter of a circle are (2, 4) and (-3, -1). The radius of the circle is  
(A)  $2\sqrt{5}$  (B)  $\frac{5}{2}\sqrt{5}$   
(C)  $\frac{5}{2}\sqrt{2}$  (D)  $5\sqrt{2}$
8. Which of the following is a quadratic polynomial with zeroes  $\frac{5}{3}$  and 0?  
(A)  $3x(3x - 5)$  (B)  $3x(x - 5)$   
(C)  $x^2 - \frac{5}{3}$  (D)  $\frac{5}{3}x^2$
9. The graph of  $y = p(x)$  is given, for a polynomial  $p(x)$ . The number of zeroes of  $p(x)$  from the graph is



- (A) 3 (B) 1  
(C) 2 (D) 0
10. The value of  $k$  for which the pair of equations  $kx = y + 2$  and  $6x = 2y + 3$  has infinitely many solutions,  
(A) is  $k = 3$  (B) does not exist  
(C) is  $k = -3$  (D) is  $k = 4$