

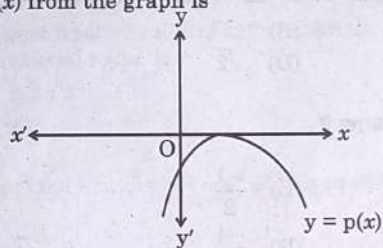


5. The distribution below gives the marks obtained by 80 students on a test :

| 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 cm² (B) 1056 cm²
(C) 550 cm² (D) 500 cm²
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 $k = 4$