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Choose the correct answer from the given four options:

- The distance of the point $P(2, 3)$ from the x -axis is
(A) 2 (B) 3 (C) 1 (D) 5
- The distance between the points $A(0, 6)$ and $B(0, -2)$ is
(A) 6 (B) 8 (C) 4 (D) 2
- The distance of the point $P(-6, 8)$ from the origin is
(A) 8 (B) $2\sqrt{7}$ (C) 10 (D) 6
- The distance between the points $(0, 5)$ and $(-5, 0)$ is
(A) 5 (B) $5\sqrt{2}$ (C) $2\sqrt{5}$ (D) 10
- AOBC is a rectangle whose three vertices are vertices $A(0, 3)$, $O(0, 0)$ and $B(5, 0)$. The length of its diagonal is
(A) 5 (B) 3 (C) $\sqrt{34}$ (D) 4
- The perimeter of a triangle with vertices $(0, 4)$, $(0, 0)$ and $(3, 0)$ is
(A) 5 (B) 12 (C) 11 (D) $7+\sqrt{5}$
- The area of a triangle with vertices $A(3, 0)$, $B(7, 0)$ and $C(8, 4)$ is
(A) 14 (B) 28 (C) 8 (D) 6
- The points $(-4, 0)$, $(4, 0)$, $(0, 3)$ are the vertices of a
(A) right triangle (B) isosceles triangle
(C) equilateral triangle (D) scalene triangle
- The point which divides the line segment joining the points $(7, -6)$ and $(3, 4)$ in ratio $1:2$ internally lies in the
(A) I quadrant (B) II quadrant
(C) III quadrant (D) IV quadrant
- The point which lies on the perpendicular bisector of the line segment joining the points $A(-2, -5)$ and $B(2, 5)$ is
(A) $(0, 0)$ (B) $(0, 2)$ (C) $(2, 0)$ (D) $(-2, 0)$
- The fourth vertex D of a parallelogram ABCD whose three vertices are $A(-2, 3)$, $B(6, 7)$ and $C(8, 3)$ is
(A) $(0, 1)$ (B) $(0, -1)$ (C) $(-1, 0)$ (D) $(1, 0)$
- If the point $P(2, 1)$ lies on the line segment joining points $A(4, 2)$ and $B(8, 4)$, then
(A) $AP = \frac{1}{3} AB$ (B) $AP = PB$ (C) $PB = \frac{1}{3} AB$ (D) $AP = \frac{1}{2} AB$
- If $P(\frac{a}{3}, 4)$ is the mid-point of the line segment joining the points $Q(-6, 5)$ and $R(-2, 3)$, then the value of a is
(A) -4 (B) -12 (C) 12 (D) -6
- The perpendicular bisector of the line segment joining the points $A(1, 5)$ and $B(4, 0)$ cuts the y -axis at
(A) $(0, 13)$ (B) $(0, -13)$
(C) $(0, 12)$ (D) $(13, 0)$
- The coordinates of the point which is equidistant from the three vertices of the ΔAOB as shown in the Fig. 7.1 is
(A) (x, y) (B) (y, x)
(C) $\frac{x}{2}, \frac{y}{2}$ (D) $\frac{y}{2}, \frac{x}{2}$
- A circle drawn with origin as the centre passes through $(\frac{13}{2}, 0)$. The point which does not lie in the interior of the circle is
(A) $\frac{-3}{4}, 1$ (B) $2, \frac{7}{3}$ (C) $5, \frac{-1}{2}$ (D) $(-6, \frac{5}{2})$
- A line intersects the y -axis and x -axis at the points P and Q , respectively. If $(2, -5)$ is the mid-point of PQ , then the coordinates of P and Q are, respectively
(A) $(0, -5)$ and $(2, 0)$ (B) $(0, 10)$ and $(-4, 0)$
(C) $(0, 4)$ and $(-10, 0)$ (D) $(0, -10)$ and $(4, 0)$
- The area of a triangle with vertices $(a, b+c)$, $(b, c+a)$ and $(c, a+b)$ is
(A) $(a+b+c)^2$ (B) 0 (C) $a+b+c$ (D) abc
- If the distance between the points $(4, p)$ and $(1, 0)$ is 5 , then the value of p is
(A) 4 only (B) ± 4 (C) -4 only (D) 0
- If the points $A(1, 2)$, $O(0, 0)$ and $C(a, b)$ are collinear, then
(A) $a = b$ (B) $a = 2b$ (C) $2a = b$ (D) $a = -b$

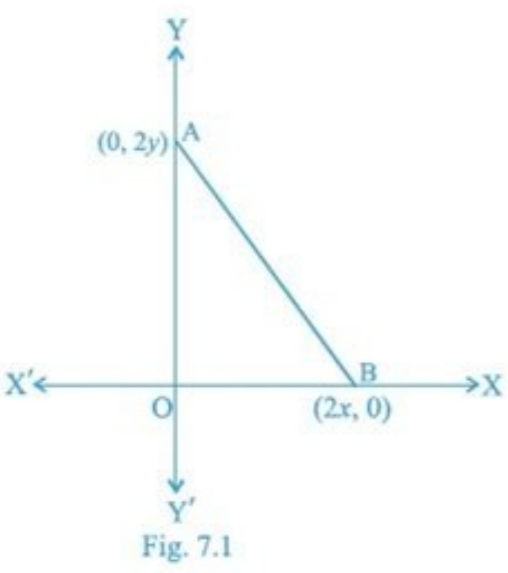
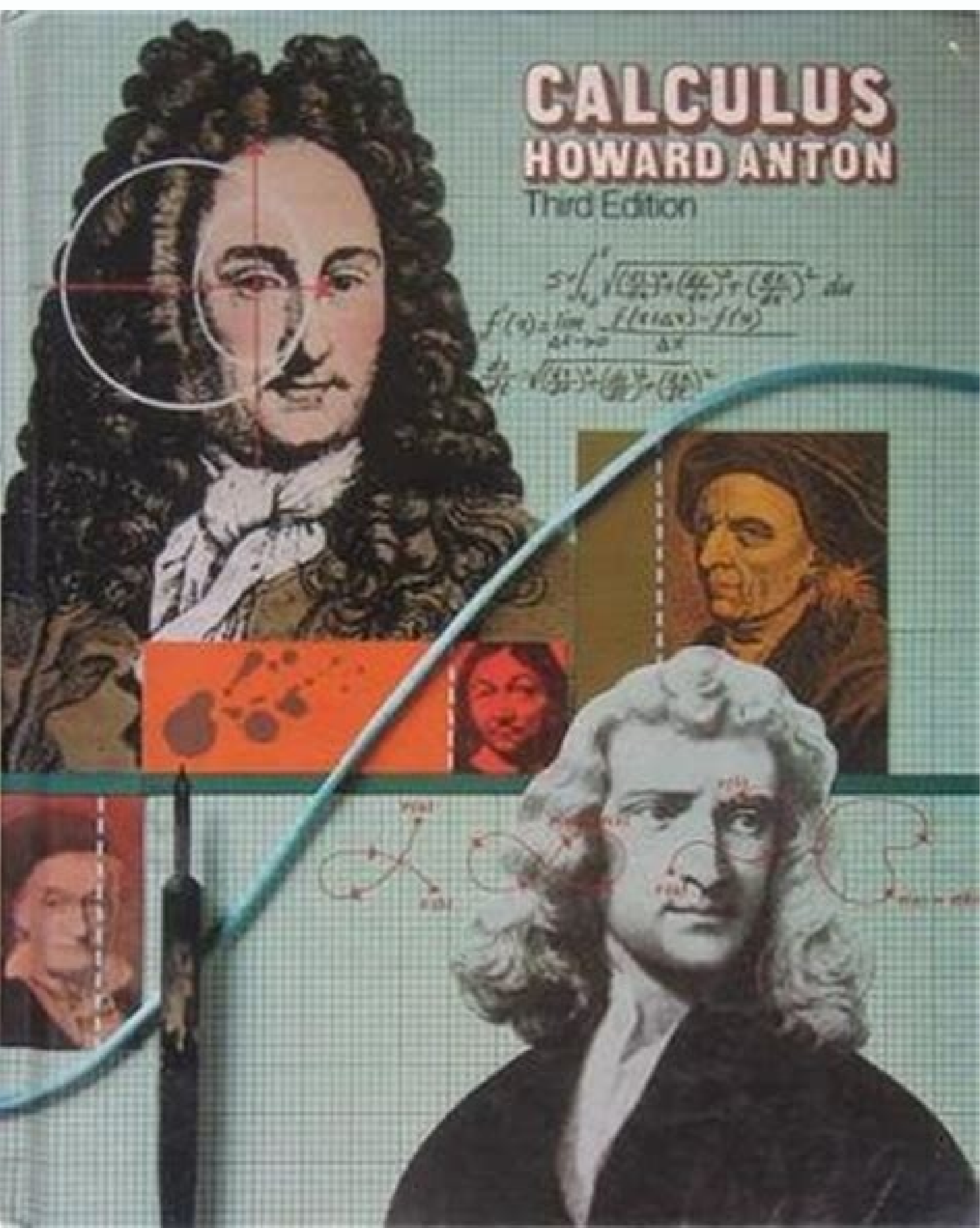



Fig. 7.1



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