

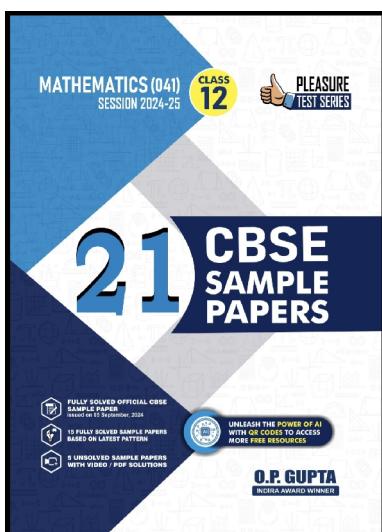
APPLICATION OF INTEGRALS

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- Q01. Find the area of the region lying in the first quadrant and enclosed by the x-axis, the line $y = x$ and the circle $x^2 + y^2 = 32$.
- Q02. Find the area of the region $\{(x, y) : y \leq |x| + 2, y \geq x^2\}$, using integration.
- Q03. Using integration, find the area of the parabola $y^2 = 4ax$ bounded by its latus rectum.
- Q04. If the area between the curves $x = y^2$ and $x = 4$ is divided into two equal parts by the line $x = a$, then find the value of 'a' using integration.
- Q05. Find the area of the region bounded by the curves $x^2 + y^2 = 4$, $y = \sqrt{3}x$ and x-axis in the first quadrant.
- Q06. Find the area of the ellipse $x^2 + 9y^2 = 36$ using integration.
- Q07. Using integration, find the area bounded by the circle $x^2 + y^2 = 9$.
- Q08. Find the area bounded by the curve $y = |x - 1|$ and $y = 1$, using integration.
- Q09. Find the area of the region $\{(x, y) : x^2 \leq y \leq x + 2\}$, using integration.
- Q10. Using integration, find the area of the region : $\{(x, y) : 0 \leq y \leq x^2, 0 \leq y \leq x, 0 \leq x \leq 2\}$.

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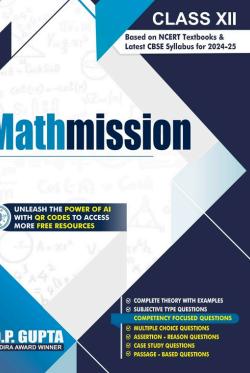
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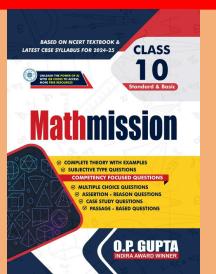
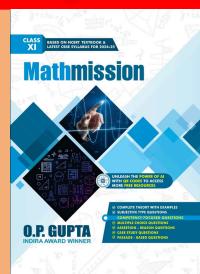
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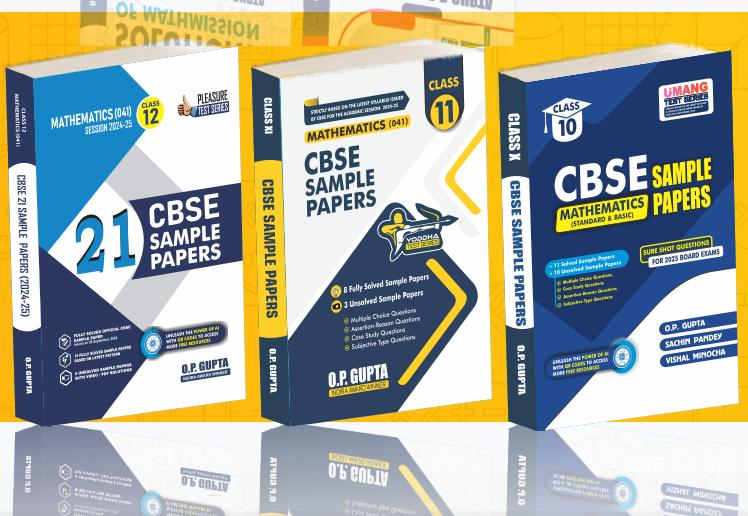
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