

$$\begin{aligned}
 &= \left[\left(\frac{x^3}{3} + x \right) \right]_0^1 + \left[\left(\frac{x^2}{2} + x \right) \right]_1^2 \\
 &= \left[\left(\frac{1}{3} + 1 \right) - 0 \right] + \left[(2 + 2) - \left(\frac{1}{2} + 1 \right) \right] = \frac{23}{6}
 \end{aligned}$$

Miscellaneous Exercise on Chapter 8

- Find the area under the given curves and given lines:
 - $y = x^2$, $x = 1$, $x = 2$ and x -axis.
 - $y = x^2$, $x = 1$, $x = 5$ and x -axis.
- Find the area between the curves $y = x$ and $y = x^2$.
- Find the area of the region lying in the first quadrant and bounded by $y = 4x^2$, $x = 0$, $y = 1$ and $y = 4$.
- Sketch the graph of $y = |x + 2|$ and evaluate $\int_{-4}^0 |x + 2| dx$.
- Find the area bounded by the curve $y = \sin x$ between $x = 0$ and $x = 2\pi$.
- Find the area enclosed between the parabola $y^2 = 4ax$ and the line $y = mx$.
- Find the area enclosed by the parabola $y^2 = 3x^2$ and the line $2y = 3x + 12$.
- Find the area of the smaller region bounded by the ellipse $\frac{x^2}{9} + \frac{y^2}{4} = 1$ and the line $\frac{x}{3} + \frac{y}{2} = 1$.
- Find the area of the smaller region bounded by the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ and the line $\frac{x}{a} + \frac{y}{b} = 1$.
- Find the area of the region enclosed by the parabola $x^2 = y$, the line $y = x + 2$ and $y = -x$.
- Using the method of integration find the area bounded by the curve $|x| + |y| = 1$.
[Hint: The required region is bounded by lines $x + y = 1$, $x - y = 1$, $-x + y = 1$ and $-x - y = 1$].

Space Mathematics Part 2 Volume 6

JG Myers



Space Mathematics Part 2 Volume 6:

Applications of Group Theory in Physics and Mathematical Physics Moshé Flato, Paul Sally, Gregg Zuckerman, 1985-12-31
The past decade has seen a renewal in the close ties between mathematics and physics The Chicago Summer Seminar on Applications of Group Theory in Physics and Mathematical Physics held in July 1982 was organized to bring together a broad spectrum of scientists from theoretical physics mathematical physics and various branches of pure and applied mathematics in order to promote interaction and an exchange of ideas and results in areas of common interest This volume contains the papers submitted by speakers at the Seminar The reader will find several groups of articles varying from the most abstract aspects of mathematics to a concrete phenomenological description of some models applicable to particle physics The papers have been divided into four categories corresponding to the principal topics covered at the Seminar This is only a rough division and some papers overlap two or more of these categories

Large-Scale Computations in Fluid Mechanics Stanley Osher, 1985-12-31 **Modern Modeling of Continuum Phenomena** Richard C. DiPrima, 1977-12-31 *Applied Mechanics Reviews*, 1968 Proceedings of the Summer Seminar, 1966 *Nonlinear Oscillations in Biology* F. C. Hoppensteadt, 1979 **Scientific and Technical Aerospace Reports**, 1989 **Notices of the American Mathematical Society** American Mathematical Society, 1975 Contains articles of significant interest to mathematicians including reports on current mathematical research **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society, 1979 Resources in Education, 1972 *The Journal of Education*, 1945 Les Méthodes dynamiques de géodésie par satellites, 1968 *Nature* Sir Norman Lockyer, 1893 **Annals of Mathematics**, 1907 **Indiana Register**, 1983 *The Mathematical Gazette*, 1894 **Books in Print**, 1994 Data Sources, 2000 **Search**, 1979 **The Athenaeum**, 1894

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