

Application of integration pdf

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$y = x^4$, $x = 1$, $x =$ and x -axis. Then () Volume $\pi r^2 x^2 h^2 dx \pi r^2 h^2 x h \pi r^2 h$ Example Find the volume of a pyramid of height h and square base of side $=2$ between Miscellaneous Exercise on Chapter Find the area under the given curves and given lines: $y = x^2$, $x = 1$, $x =$ and x -axis. $y = x^4$, $x = 1$, $x =$ and x -axis. With very little change we can APPLICATION OF INTEGRALS Fig This area is called the elementary area which is located at an arbitrary position within the region which is specified by some value of x The base of the triangle is units and the vertical height will be units. Choose the correct answer in the following Exercises from to 5 Chapter Applications of Integration Figure r PSfrag replacements $h \times \sigma \times p$ Figure PSfrag replacements $h \times \sigma \times p$ pas a function of x by similar triangles: () $p \times h$ so $p \times h$. Hence the area of $A = x =$ square units Now consider the definite integral $\int_{-+} = 4 - =$ a) Set up the integral for volume using integration dx b) Set up the integral for volume using integration dy c) Evaluate (b). The total moment is the same as if the whole mass M is placed at Z The base of the triangle is units and the vertical height will be units. d) (optional) Show that the (a) and (b) are the same using Miscellaneous Exercise on Chapter Find the area under the given curves and given lines: $y = x^2$, $x = 1$, $x =$ and x -axis. Hence the area of $A = x =$ square units Now consider the definite integral $\int_{-+} = 4 - =$ square units We can conclude that the area of the region under the line. In the continuous case, the mass distribution is given by the density $p(z)$. The total mass is $M = \int p(x)dx$ and the center of mass is at $Z = \int xp(x)dx / p = x$, the integrals from to Applications of Integration Area between ves cur We have seen how integration can be used to find an area between a curve and the x -axis. Sketch the graph of $y = x +$ and evaluate Find the area bounded by the curve $y = \sin x$ between $x =$ and $x = 2\pi$. Find the area between the curves $y = x$ and $y = x$ Find the area of the region lying in the first quadrant and bounded by $y = 4x^2$, $= 0$, $y =$ and $y = 4$ In the continuous case, the mass distribution is given by the density $p(z)$. The total mass is $M = \int p(x)dx$ and the center of mass is at $Z = \int xp(x)dx / p = x$, the integrals from to L give $M = \sim \sim$ and $\int xp(x)dx = \sim \sim$ and $Z = L/S$.

 Difficulté Difficile

 Durée 922 minute(s)

 Catégories Décoration, Électronique, Énergie

 Coût 845 EUR (€)

Sommaire

Matériaux

Outils

Étape 1 -