Application of Integration: Volume

The Shell Method

To begin, consider a representative rectangle as shown in Figure 7.27, where is the width of the rectangle, h is the height of the rectangle, and p is the distance between the axis of revolution and the center of the rectangle. When this rectangle is revolved about its axis of revolution, it

forms a cylindrical shell (or tube) of thickness w

 The radius of the larger cylinder corresponds to the outer radius of the shell, and

Fig. Clinics

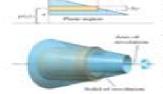
Element 2.27

smaller cylinder corresponds to the inner radius of the shell.

time

Volume of shell = (volume of cylinder) = (volume of hole)
=
$$\pi \left(\mu + \frac{w}{2}\right)^2 h - \pi \left(\mu - \frac{w}{2}\right)^2 h$$

= $2 \pi \mu h w$
= $2 \pi f h w$ references radius/thright/dhickness).



Consider the plane region in Figure shown is revolved about a line to form the indicated solid. Consider a horizontal rectangle of width Δy. As the plane region is revolved about a line parallel to the axis, the rectangle generates a representative shell whose volume is

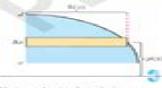
$$\Delta V = 2\pi [p(y)h(y)] \Delta y.$$

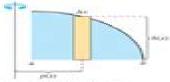
THE SHELL HETHOD

To find the tellurar of a milid of revolution with the shell method, use one of the formulas below. (See Figure 7.29.)

Volume =
$$y = 2\pi \int_{-\pi}^{\pi} \mu(y)h(y)$$
.

Volume =
$$V = 2\pi \int_{-\pi}^{\pi} p(x) h(x) dx$$





Historiestal sixts of poveloption

Wheelshift toxics off privationisms

Example:

- Find the volume of the solid of revolution formed by revolving the region bounded by y = x − x³ and the x-axis (0 ≤ x ≤ 1) about the y-axis.
- Find the volume of the solid of revolution formed by revolving the region bounded by the graph of x = e^{-y'} and the y-axis (0 ≤ y ≤ 1) about the xaxis.
- A pontoon is to be made in shape shown. The pontoon is designed by rotating the graph of y = 1 x/100. -4 ≤ x ≤ 4 about the x-axis, where x and y are measured in feet. Find the volume of the pontoon.



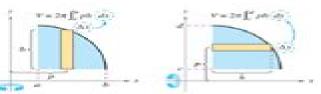
Comparison of Disk Method and Shell Method



Vortical axis of pevolution

robation. Horizontal axio of revulation

Dtsk method: Representative rectangle is perpendicular to the axis of revolution.



Worthcall units off revolutions

Horizontal axis of revolution

Shell method. Representative rectangle in parallel to the axis of revolution.

Geometry Integration Application Connection

Richard Bailey

Geometry Integration Application Connection:	;

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