



Disk Method: V= TT / (fcx)/dx V=TT (sinx+1) dx * fix) is radi-s of disc

* dx height of disc * dx height of disc $\left(\frac{\sin(x+1)^2}{\sin(x)} = \pi \sin(x) + 2\sin(x) + 1$ $V = TT \int sin^2x + 2sinx + 1$ Jun cx1 $\frac{1}{2} \frac{3}{4} + \frac{3in2x + -2cosx + x}{6}$ $= \frac{X - \sin 2x}{2}$ $x = II = > \frac{II}{2} - 0 - (-2) + II = \frac{II}{2} + 2 + II$ $0 \times = 0 = 7$ 0 - 0 - 2 + 0 = -2TT L (= +2+TT) - (-2)] V=11 (311+4) V= 3112+411