Name:

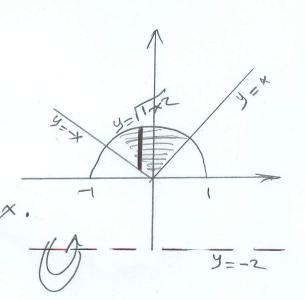
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1. Find the volume of the solid enclosed by the graph of $y = \sqrt{1 - x^2}$ and y = |x|, and is revolved about the axis y = -2. (Just set up the integral formula)

By washers Method: $V = \int_{\pi} \left[(T_{-x^2+2})^2 - (-x+2)^2 \right] dx$ $+ \int_{\pi} \left[(T_{-x^2+2})^2 - (x+2)^2 \right] dx$.

By cylinderical shells method:



2. Find the volume of the solid enclosed by the graph of $y = \sin x$ and $y = \cos x$, from $x = \frac{\pi}{4}$, to $x = \frac{3\pi}{4}$ and is revolved about the axis $x = -\pi$.

By Cylinerical Shells Method:

V= 2TT (x-(=TT)) (Sin x-cus x) dx

TT

= S2TT (x+TT) (Sin x-cus x) dx.

TT

