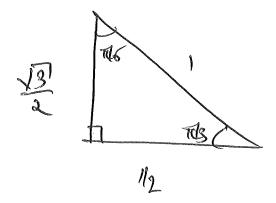
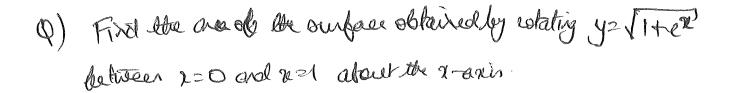
en/ten040000 = en/1/20.

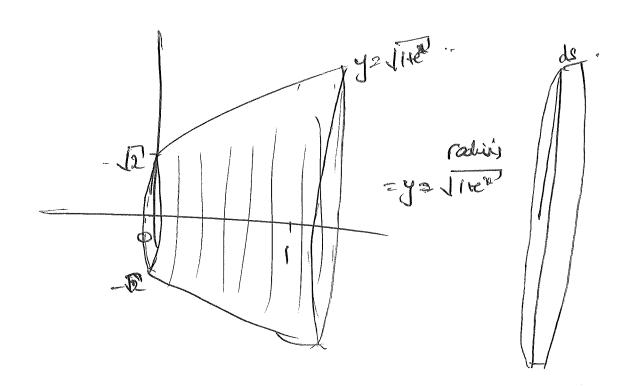


ten
$$\overline{12} = \sqrt{3}$$

ALL $\overline{3} = 2$



A) Skelea of course:



Az Sziry Titany 2 da

$$J = \sqrt{1+e^{\alpha}}$$

$$\frac{dy}{dx} = \frac{1}{2\sqrt{1+e^{\alpha}}}$$

$$\frac{dy}{dx}^{2} = \frac{e^{2\alpha}}{4(1+e^{\alpha})}$$

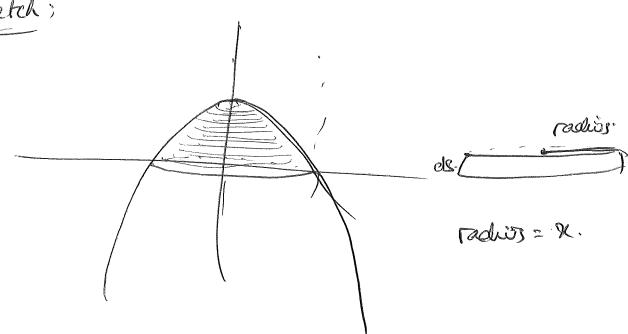
$$(\frac{dy}{dt})^{2} = \frac{e^{2x}}{4(1+e^{x})} + (= \frac{e^{2x} + 4 + 4e^{x}}{4(1+e^{x})} = \frac{(e^{2}+2)^{2}}{4(e^{2}+1)}$$

Clock this step!

$$=\int_{\mathcal{I}} 2\pi \left(e^{2\pi i 2}\right) = \pi - \int_{\mathcal{I}} e^{2\pi i 2} dx$$

(a) Fixed the area of the ourbone obtained by totaling in it 1-2 between 2 = 0, and 2=1 about the y-axis.

A) Sketch;



A2 POTTA (1+ dy)2 da

y2 1-22 du 2 -22

(dre) 2 4 x 2

1+ (dy)2=1+422

II,