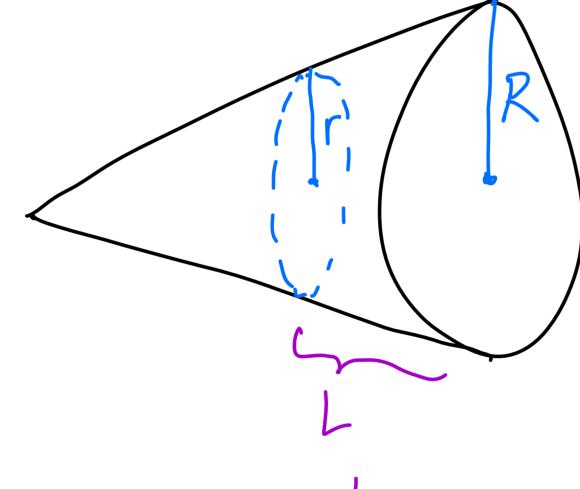
O Avea =
$$\frac{\partial}{\partial x} \pi L^2$$
; want to express with no θ .

$$(0,2)$$
 \Rightarrow Area = $\frac{V}{L}\pi L^2 = \pi V L$.

Conical frustum



Area of frustum

$$=\pi(|\alpha(tL)R-\pi|\alpha|r$$

$$\frac{|oc|}{|oc|+L} = \frac{r}{R} \Rightarrow |oc|R = |oc|r+Lr$$

$$\Rightarrow |OC| = \frac{Lr}{R-r}$$

$$\Rightarrow |OC| + L = \frac{Lr + LR - Lr}{R - r} = \frac{LR}{R - r}$$

Sub (4) & (5) in (3):

Area =
$$\pi(|\alpha(tL)R - \pi(|\alpha|r))$$

= $\pi \frac{LR}{R-r}R - \pi \frac{Lr}{R-r}r = \pi \frac{L}{R-r}(R^2-r^2)$
= $\pi(R+r)L$.