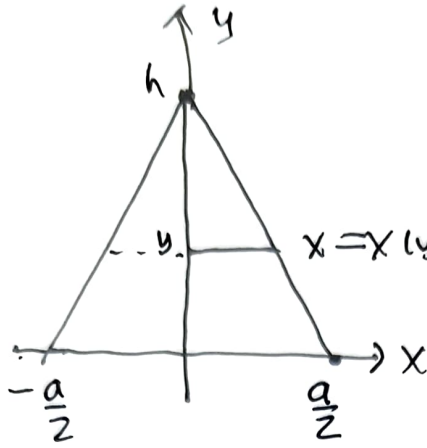


6.2.64

Hint.



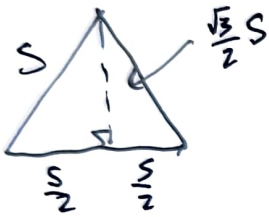
①

write eqn for straight line, solve for x

side of cross-section at height y is



②



base height

$$\text{Area} = \frac{1}{2} \left( \frac{s}{2} \right) \left( \frac{\sqrt{3}}{2}s \right)$$

$$= \frac{\sqrt{3}}{4} s^2$$

③  $s(y) = 2x(y)$

④  $A(y)$

⑤ integrate over y.