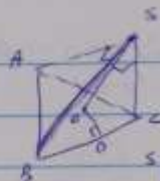
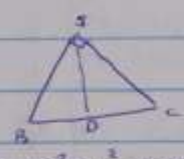
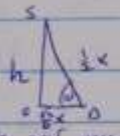


3.60 ①   $h = \frac{\sqrt{3}}{2}x$   $x \rightarrow$  panjang SB  
 (panjang rusuk)  $\frac{\sqrt{3}}{2}x$

$OD = \frac{1}{3} \cdot \frac{\sqrt{3}}{2}x = \frac{\sqrt{3}}{6}x$



(SBO)  $\angle$   $\alpha$   $\rightarrow$   $SO = \frac{1}{2}BC = \frac{1}{2}x$

$BC^2 = SB^2 + SC^2 = 2SB^2$   
 $x^2 = 2SB^2$   
 $SB = \frac{x}{\sqrt{2}}$

$\cos \alpha = \frac{SO}{SB} = \frac{\frac{1}{2}x}{\frac{x}{\sqrt{2}}} = \frac{\sqrt{2}}{2}$

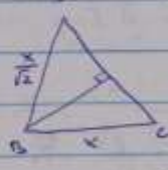
$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} = 3 \rightarrow \tan \alpha = \sqrt{2}$

$SO^2 = h^2 = OD^2 + \frac{x^2}{4} \rightarrow \frac{x^2}{4} = h^2 + \frac{x^2}{12}$

$SO \perp$   $\rightarrow$   $SO$   $\perp$   $SO$

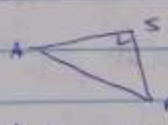
$2x^2 = 12h^2 \rightarrow x = \sqrt{6}h$

②



(SBO)  $SO \perp$   $BC$   $\rightarrow$   $SO$   $\perp$   $SO$

atau  $\angle$   $\alpha$   $\rightarrow$   $SO = \frac{1}{2}BC = \frac{1}{2}x$   
 atau  $\angle$   $\alpha$   $\rightarrow$   $SO = \frac{1}{2}BC = \frac{1}{2}x$



atau  $\angle$   $\alpha$   $\rightarrow$   $SO = \frac{1}{2}BC = \frac{1}{2}x$

③  $V = \frac{1}{3} S_{ABC} \cdot SO = \frac{1}{3} \cdot \frac{\sqrt{3}}{4} x^2 \cdot h = \frac{1}{3} \cdot \frac{\sqrt{3}}{4} \cdot 6h^2 \cdot h = \frac{\sqrt{3}h^3}{2}$