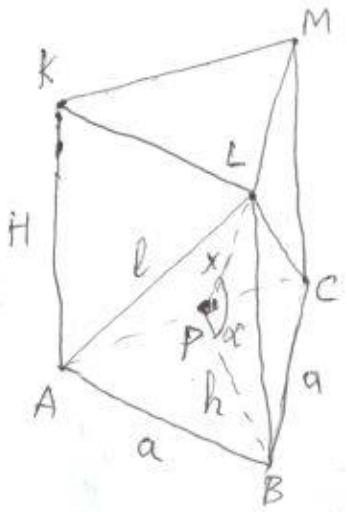


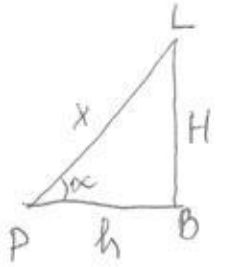
D.: $S_{ACL} = S$

$\angle LPB = \alpha$

R.: V_{ABCL}

$S = \frac{1}{2} a \cdot x$, $a = \frac{2S}{x}$;

$S_{ABC} = \frac{1}{2} a \cdot h$, $S_{ABC} = \frac{1}{2} \cdot \frac{2S}{x} \cdot h = \frac{Sh}{x}$;



$\frac{h}{x} = \cos\alpha$, $\underline{S_{ABC} = S \cdot \cos\alpha}$.

$l^2 = x^2 + \left(\frac{a}{2}\right)^2$;

$l^2 = a^2 + H^2$;

$$\begin{cases} x^2 + \left(\frac{a}{2}\right)^2 = a^2 + H^2 \\ \frac{H}{x} = \sin\alpha \\ a = \frac{2S}{x} \end{cases};$$

$$\begin{cases} H^2 = x^2 - \frac{3}{4} a^2 \\ x = \frac{H}{\sin\alpha} \\ a = \frac{2S}{H} \cdot \sin\alpha \end{cases};$$

$H^2 = \frac{H^2}{\sin^2\alpha} - \frac{3}{4} \cdot \left(\frac{2S}{H} \cdot \sin\alpha\right)^2$;

$H^4 = \frac{H^4}{\sin^2\alpha} - 3 \cdot S^2 \cdot \sin^2\alpha$;

$$\underline{H = \frac{\sin\alpha \cdot \sqrt{\sqrt{3} \cdot S}}{\sqrt{\cos\alpha}}}.$$

$V_{ABCL} = \frac{1}{3} \cdot S_{ABC} \cdot H$; $V_{ABCL} = \frac{1}{3} S \cdot \sin\alpha \cdot \sqrt{\cos\alpha} \cdot \sqrt{\sqrt{3} \cdot S}$;

$$\underline{V = \frac{1}{3} S^{3/2} \cdot \sin\alpha \cdot \sqrt{\sqrt{3} \cdot \cos\alpha}}.$$