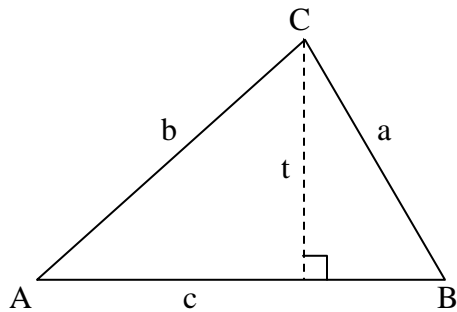
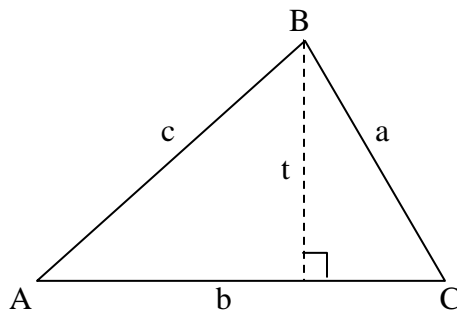


# LUAS SEGITIGA

Gambar 1



Gambar 2



**Perhatikan gambar 2 di samping:**

$$\sin C = \frac{t}{a} \Rightarrow t = a \cdot \sin C$$

Karena  $L\Delta = \frac{1}{2}$  alas x tinggi, maka

$$\begin{aligned} L\Delta &= \frac{1}{2} \cdot b \cdot t \\ &= \frac{1}{2} \cdot b \cdot (a \sin C) \end{aligned}$$

$$= \frac{1}{2} \cdot ab \sin C$$

**Perhatikan gambar 1 di samping:**

$$\sin B = \frac{t}{a} \Rightarrow t = a \cdot \sin B$$

Karena  $L\Delta = \frac{1}{2}$  alas x tinggi, maka

$$\begin{aligned} L\Delta &= \frac{1}{2} \cdot c \cdot t \\ &= \frac{1}{2} \cdot c \cdot (a \sin B) \end{aligned}$$

$$= \frac{1}{2} \cdot ac \sin B$$

$$\sin A = \frac{t}{b} \Rightarrow t = b \cdot \sin A$$

Karena  $L\Delta = \frac{1}{2}$  alas x tinggi, maka

$$\begin{aligned} L\Delta &= \frac{1}{2} \cdot c \cdot t \\ &= \frac{1}{2} \cdot c \cdot (b \sin A) \end{aligned}$$

$$= \frac{1}{2} \cdot bc \sin A$$

“Luas segitiga sama dengan setengah kali hasil kali dua sisi dengan sinus sudut yang diapit oleh keduanya”