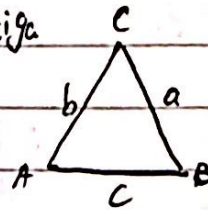


1.

Dik: $a = 10$

Dit? Luas Segitiga

 $b = 12$ $c = 14$ 

$$L = \sqrt{s(s-a)(s-b)(s-c)}$$

$$s = \frac{1}{2} (12 + 10 + 14) = \frac{1}{2} (36) = 18$$

$$L = \sqrt{18(18-10)(18-12)(18-14)}$$

$$= \sqrt{18(8)(6)(4)}$$

$$= \sqrt{9 \times 2 \times 8 \times 6 \times 4}$$

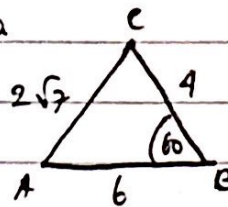
$$= 3 \cdot 4 \cdot 2 \sqrt{6}$$

$$= \underline{\underline{24\sqrt{6}}}$$

2.

Dik: $a : 4$

Dit: Luas segitiga

 $b : 2\sqrt{7}$ $c : 6$ 

$$\cos B = \frac{b^2 + a^2 - c^2}{2(b)(a)}$$

$$= \frac{36 + 16 - 28}{12 \times 4}$$

$$\cos B = \frac{24}{12 \times 4} = \frac{1}{2} = \underline{\underline{60}}$$

$$\sin B = \frac{1}{2} \sqrt{3} = \sin 60 = \frac{\sqrt{3}}{2}$$

$$L = \frac{1}{2} \cdot c \cdot a \sin B$$

$$= \frac{1}{2} \cdot 6 \cdot 4 \cdot \frac{1}{2} \sqrt{3}$$

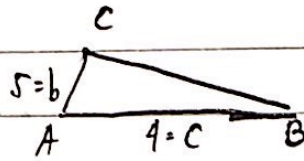
$$= \underline{\underline{6\sqrt{3}}}$$

3.

Dik: $L = \frac{5}{2} \sqrt{15} \text{ cm}^2$ Dit: Panjang BC!

$$AC = 5 \text{ cm}$$

$$AB = 4 \text{ cm}$$

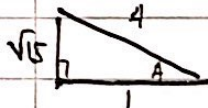
 $\angle BAC = \text{Lancip}$ 

$$L = \frac{5}{2} \sqrt{15} \text{ cm}^2$$

$$L = \frac{1}{2} \cdot b \cdot c \sin A$$

$$\frac{5}{2} \sqrt{15} = \frac{1}{2} \cdot 4 \sin A$$

$$\sin A = \frac{\sqrt{15}}{4} = \frac{de}{mi}$$



$$\cos A = \frac{1}{4}$$

$$BC^2 = b^2 + c^2 - 2bc \cos A$$

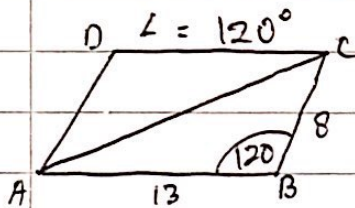
$$= 25 + 16 - 2(5)(4) \cdot \frac{1}{4}$$

$$= 41 - 10$$

$$BC = \sqrt{31}$$

4.

Dik: Sisi: 8 dan 13 cm Dit: Luas Segitiga!



$$L_{\triangle ADC} = L_{\triangle ABC}$$

$$= \frac{13 \times 8}{2} \cdot \sin 120$$

$$= 52 \cdot \frac{1}{2} \sqrt{3}$$

$$= 26\sqrt{3}$$