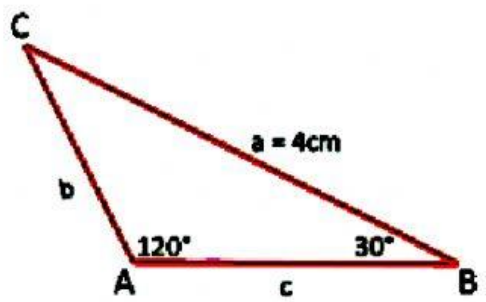
Aturan Sinus

Nama :	Kelas :	No. Absen :

Diketahui ΔABC *dengan panjang sisi* $a = 4\ cm$, $\angle A = 120°$ *dan* $\angle B = 30°$, *panjang sisi C adalah..*



Jumlah sudut pada segitiga adalah 180°

$\angle A + \angle B + \angle C = 180°$

$° + ° + \angle C = 180°$

$° + \angle C = 180°$

$\angle C = 180° - °$ $= °$

$\frac{a}{\sin A} = \frac{c}{\sin C}$

$\frac{\quad}{\sin \quad °} = \frac{\quad}{\sin \quad °}$

$\frac{\quad}{\frac{1}{2}\sqrt{3}} = \frac{\quad}{\frac{1}{2}}$

$\frac{\quad}{\sqrt{3}} \quad \frac{\quad}{\quad}$

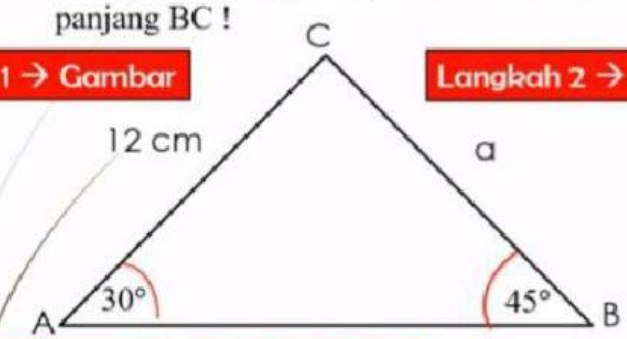
$\sqrt{3}\ c =$

$c = \frac{\quad}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}}$

$c = \frac{\sqrt{3}}{\quad}$

Diketahui segitiga ABC, $< A = 30°$, $< B = 45°$ dan panjang AC = 12 cm. tentukan panjang BC !

Langkah 1 → Gambar



	0°	30°	45°	60°	90°
Sin	0	$\frac{1}{2}$	$\frac{1}{2}\sqrt{2}$	$\frac{1}{2}\sqrt{3}$	1
Cos	1	$\frac{1}{2}\sqrt{3}$	$\frac{1}{2}\sqrt{2}$	$\frac{1}{2}$	0
Tan	0	$\frac{1}{3}\sqrt{3}$	1	$\sqrt{3}$	~

Langkah 2 → aturan sinus

$\frac{a}{Sin \quad °} = \frac{\quad}{Sin \quad °}$

$\frac{a}{\frac{1}{2}} = \frac{\quad}{\frac{1}{2}\sqrt{\quad}}$

$a = \frac{12}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}}$

$a = \frac{12\sqrt{\quad}}{2}$

$a = \sqrt{2}$

LIVEWORKSHEETS