

9.1

Sine Rule Petua Sinus

Chapter 9
pp. 140–150

SMART Notes

1. Sine rule Petua sinus



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} \text{ or/atau } \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

2. Sine rule can be used to find the unknown angles or sides of a triangle when

Petua sinus boleh digunakan untuk menentukan sudut atau sisi yang tidak diketahui dalam suatu segi tiga apabila

- two angles and one side are known,
dua sudut dan satu sisi diketahui.
- two sides and one non-included angle are known,
dua sisi dan satu sudut tak kandung diketahui.

3. Ambiguous case

Kes berambiguiti

When two sides and one non-included angle ($a, b, \angle A$) are given, an ambiguous case occurs if
Apabila dua sisi dan satu sudut tak kandung ($a, b, \angle A$) diberi, kes berambiguiti berlaku jika

- $a < b$
- $\angle A$ is an acute angle
 $\angle A$ ialah sudut tirus



Two triangles exist (AB_1C, AB_2C).
Dua segi tiga wujud (AB_1C, AB_2C).

1. Solve each of the following.

Example



In the diagram, LMN is a triangle. Find
Dalam rajah di atas, LMN ialah sebuah segi tiga. Cari

- $\angle M$.
- the length of LN and of NM .
panjang bagi LN dan NM .

(i) $\angle M = 180^\circ - 85^\circ - 40^\circ = 55^\circ$

(ii) $\frac{LN}{\sin 55^\circ} = \frac{7}{\sin 40^\circ}$ Using the sine rule

$$LN = \frac{7}{\sin 40^\circ} \times \sin 55^\circ = 8.92 \text{ cm}$$

$$\frac{NM}{\sin 85^\circ} = \frac{7}{\sin 40^\circ}$$

$$NM = \frac{7}{\sin 40^\circ} \times \sin 85^\circ = 10.85 \text{ cm}$$

(2)



In the diagram, ABC is a triangle. Find the length of

Dalam rajah di atas, ABC ialah sebuah segi tiga. Cari panjang bagi

- BC .
- CA .

$$(i) \frac{BC}{\sin 110^\circ} = \frac{5}{\sin 34^\circ}$$

$$BC = \frac{5}{\sin 34^\circ} \times \sin 110^\circ = 8.40 \text{ cm}$$

$$(ii) \frac{CA}{\sin (180^\circ - 110^\circ - 34^\circ)} = \frac{5}{\sin 34^\circ}$$

$$CA = \frac{5}{\sin 34^\circ} \times \sin 36^\circ = 5.26 \text{ cm}$$

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