

### 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

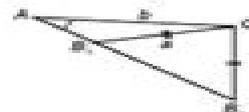
- two angles and one side are known,  
dua sudut dan satu sisi diketahui.
- two sides and one non-included angle are known,  
dua sisi dan satu sudut tak kandung diketahui.

#### 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

- $BC$ .
- $CA$ .

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

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

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

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

# Grade 4 Math Chapter 9

**Diane Heacox, Richard M. Cash**

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