

# Mathematics

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(Chapter – 7) (Triangles)(Exemplar Problems)  
(Class – IX)

## Exercise 7.1

Write the correct answer in each of the following:

### Question 5:

In  $\Delta PQR$ ,  $\angle R = \angle P$  and  $QR = 4$  cm and  $PR = 5$  cm. Then the length of  $PQ$  is

- (A) 4 cm                      (B) 5 cm                      (C) 2 cm                      (D) 2.5 cm

### Answer 5:

- (A) 4 cm

### Solution:

In a triangle, if two of its angles are equal then the sides opposite to equal angles are also equal.

In  $\Delta PQR$ ,  $\angle R = \angle P$

$\Rightarrow QR$  (side opposite to  $\angle P$ ) =  $PQ$  (side opposite to  $\angle R$ )

Given that  $QR = 4$  cm

$\Rightarrow PQ = 4$  cm



Hence, the option (A) is correct.

