## Exercise 10

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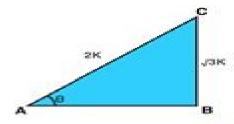
## Question 1:

If  $\sin \theta = \sqrt{3/2}$ , find the value of all T-ratios of  $\theta$ .

#### Solution:

Given function:  $\sin \theta = \sqrt{3/2}$ 

Let us first draw a right  $\triangle ABC$ ,  $\angle B = 90$  degrees and  $\angle A = \theta$ 



(where k is a positive)

We know that  $\sin \theta = BC/AC = (Perpendicular)/Hypotenuse = <math>\sqrt{3/2}$ 

By Pythagoras Theorem:

$$AC^2 = AB^2 + BC^2$$

Or AB^2 = AC^2 - BC^2 = 
$$4k^2 - 3k^2 = k^2$$
  
AB =  $k$ 

Find other T-rations using their definitions:

$$Cos = AB/AC = 1/2$$

Tan 
$$\theta = BC/AB = \sqrt{3}$$

$$cosec \theta = 1/sin\theta = 2/\sqrt{3}$$

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