## Exemplar Problem

## Trigonometry Functions

## **70.** $\sin 10^{\circ}$ is greater than $\cos 10^{\circ}$ .

Ans: Given, sin 10° > cos 10°

$$\Rightarrow \sin 10^{\circ} > \cos (90^{\circ} - 80^{\circ})$$

We know that  $\cos(90^{\circ} - \theta) = \sin\theta$ . Therefore, we get

It is incorrect because value of  $\sin e$  is in increasing order.

Thus, the given statement is false.