

## APPLICATION OF TRIGONOMETRY

## GRADE10

If the height and length of the shadow of a man are the same, then the angle of elevation of the sun is

- (A)  $30^\circ$                       (B)  $60^\circ$                       (C)  $45^\circ$                       (D)  $15^\circ$

If a pole of height 6 m casts a shadow  $2\sqrt{3}$  m long on the ground, then the sun's elevation is.

- (A)  $30^\circ$                       (B)  $60^\circ$                       (C)  $45^\circ$                       (D)  $90^\circ$

The angle of depression from the top of a tower 12 m high, at a point on the ground is  $30^\circ$ . The distance of the point from the top of the tower is :

- (A) 12 m                      (B) 6 m                      (C)  $12\sqrt{3}$  m                      (D) 24 m

A tree casts a shadow 4 m long on the ground, when the angle of elevation of the sun is  $45^\circ$ . The height of the tree (in metres) is :

- (A) 3                      (B) 4                      (C) 4.5                      (D) 5.2

The Fig. 5, shows the observation of point C from point A. The angle of depression from A is :

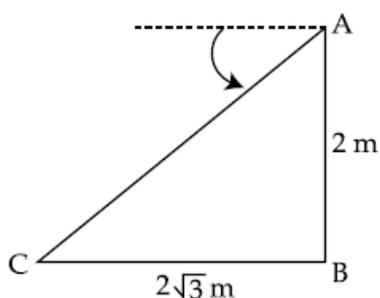
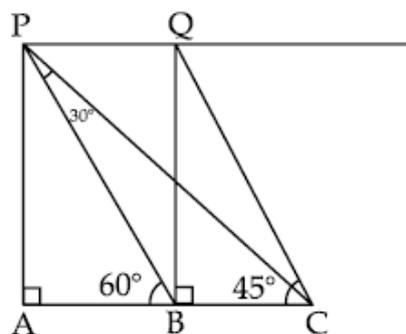


Fig. 5

- (A)  $60^\circ$                       (B)  $30^\circ$                       (C)  $45^\circ$                       (D)  $75^\circ$

From the figure, the angle of depression of point C from the point P is :



- (A)  $90^\circ$                       (B)  $60^\circ$                       (C)  $30^\circ$                       (D)  $45^\circ$