

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° (B) 60° (C) 45° (D) 15°

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° (B) 60° (C) 45° (D) 90°

The angle of depression from the top of a tower 12 m high, at a point on the ground is 30° . 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° . 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 :

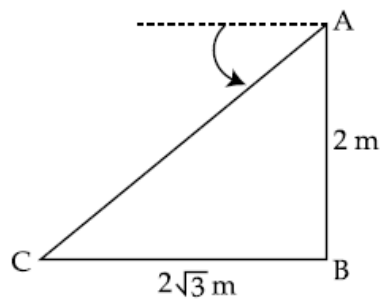
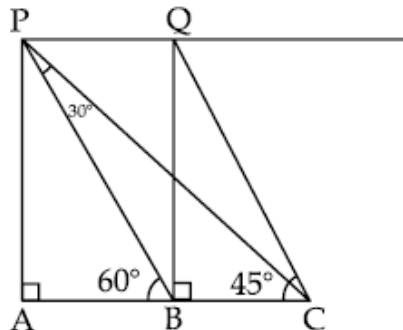


Fig. 5

- (A) 60° (B) 30° (C) 45° (D) 75°

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



- (A) 90° (B) 60° (C) 30° (D) 45°