

Dr Oliver Mathematics

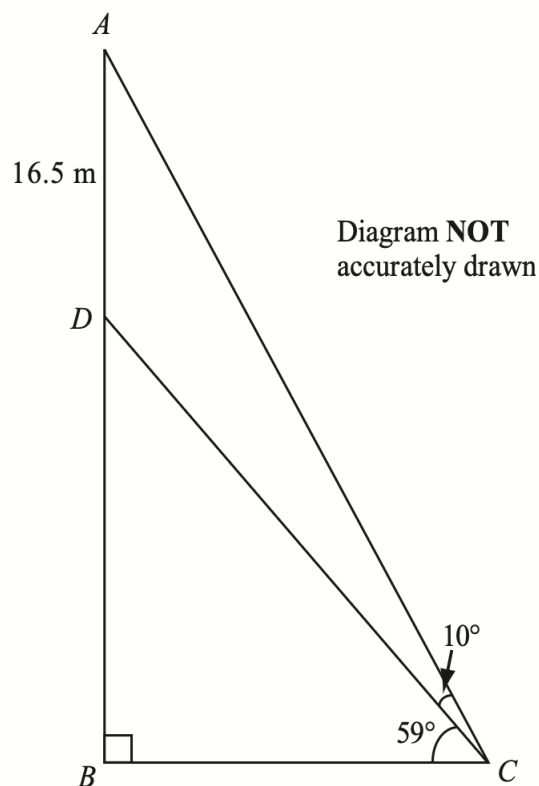
Worked Examples

Angles 3

From: IGCSE 2013 January Paper 4H Q25: Calculator

1. The diagram shows a vertical flagpole in Chennai, India.

(6)



- The point A is at the top of the flagpole.
- The point B is at the foot of the flagpole.
- There is a platform at the point D on the flagpole.
- B and C are points on horizontal ground.
- $AD = 16$ m.
- The angle of elevation of A from C is 69° .
- The angle of elevation of D from C is 59° .

Calculate the height, AB , of the flagpole.

Give your answer correct to 3 significant figures.