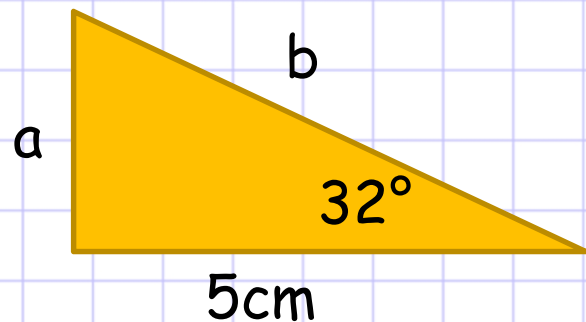
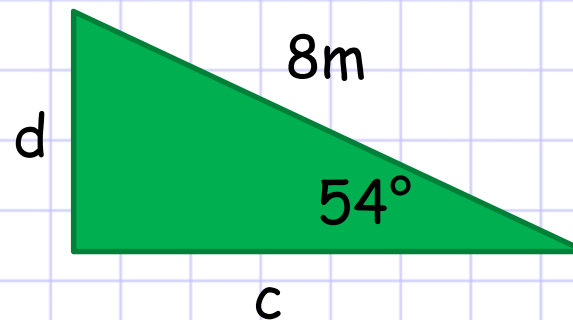


LO: Use trigonometry to find unknown sides.

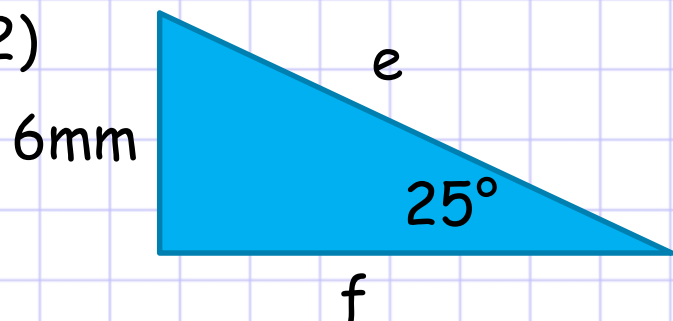
1)



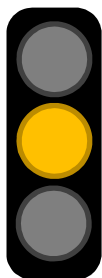
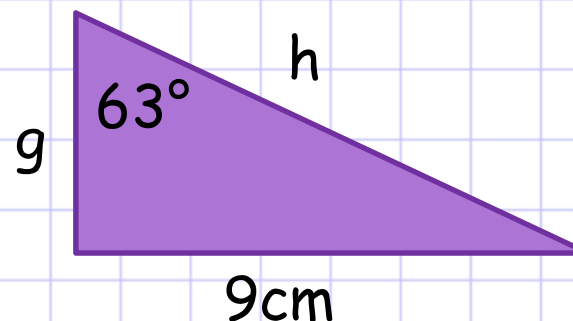
3)



2)



4)

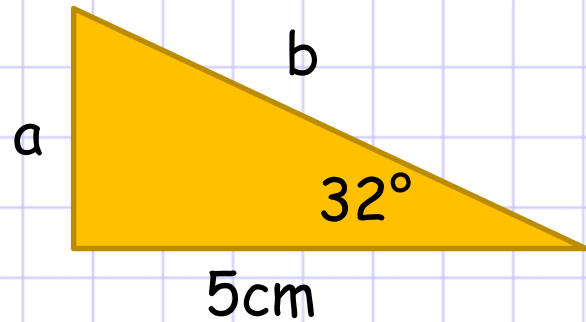


Task

You may need to use sine, cosine or tangent. It is up to you to work out which (labelling the sides as opp, adj and hyp will help). Give your answers to 3 s.f.

LO: Use trigonometry to find unknown sides.

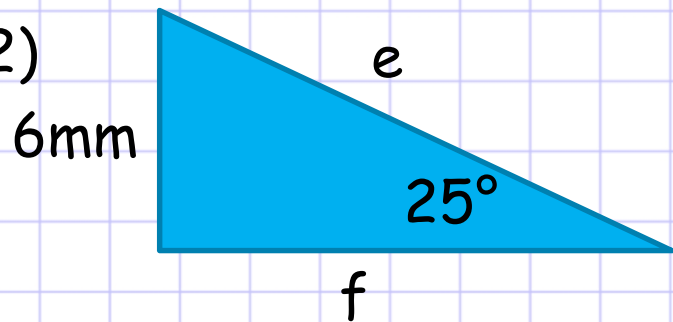
1)



$$a = 5 \times \tan(32) = 3.12\text{cm}$$

$$b = \frac{5}{\cos(32)} = 5.90\text{cm}$$

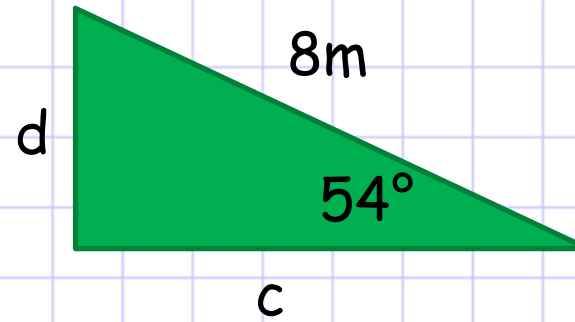
2)



$$e = \frac{6}{\sin(25)} = 14.2\text{m}$$

$$f = \frac{6}{\tan(25)} = 12.9\text{m}$$

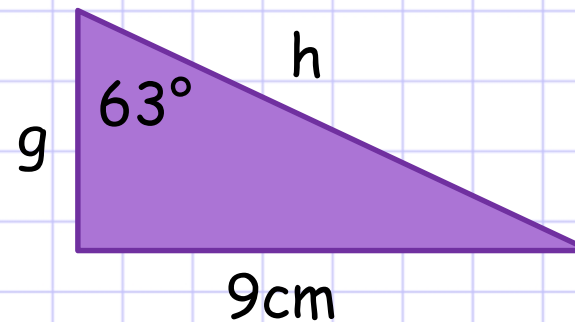
3)



$$c = 8 \times \cos(54) = 4.70\text{m}$$

$$d = 8 \times \sin(54) = 6.47\text{m}$$

4)



$$g = \frac{9}{\tan(63)} = 4.50\text{cm}$$

$$h = \frac{9}{\sin(63)} = 10.1\text{cm}$$