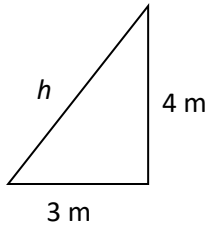


Name

Revision Sheet 9M4a - Pythagoras

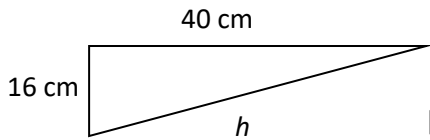
1. Find the unknown side in each of the following right-angled triangles:

a.



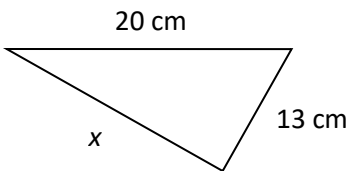
[5 m]

b.



[23.58]

c.



[41.25]

2. A wire is stretched from the top of a vertical 20 m tower to the horizontal ground 15 m from the base of the tower. How long is the wire?

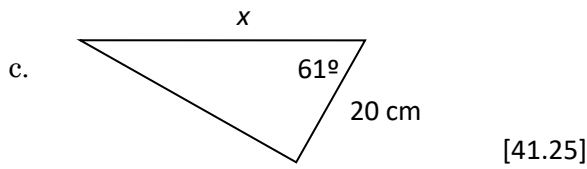
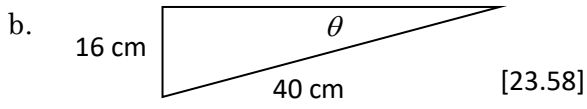
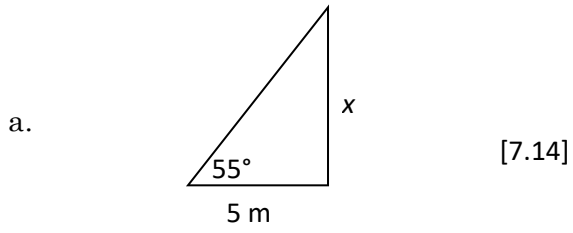
3. How long is the diagonal of a 40 cm by 20 cm rectangle?

4. An equilateral triangle has a base 10 cm long. Find its perpendicular height.

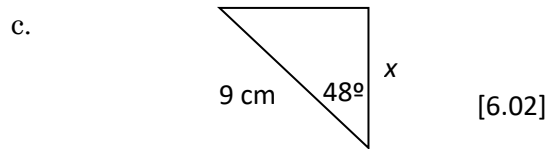
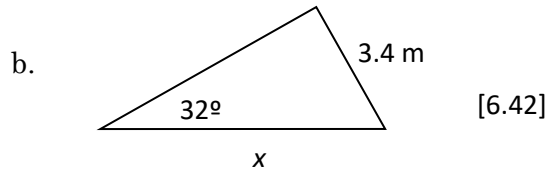
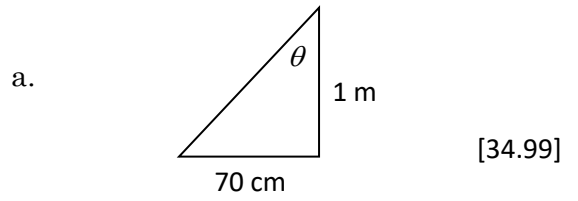
Name

Revision Sheet 11 - Trigonometry

5. Find the unknown in each of the following right-angled triangles:



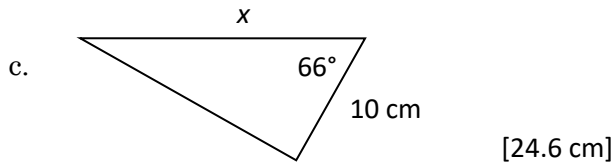
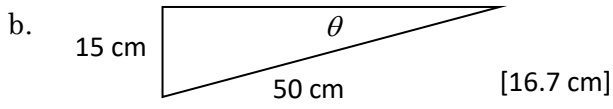
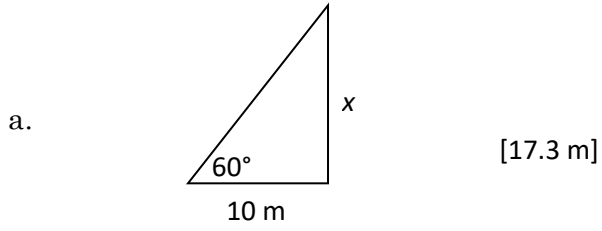
6. Find the unknown in each of the following right-angled triangles.



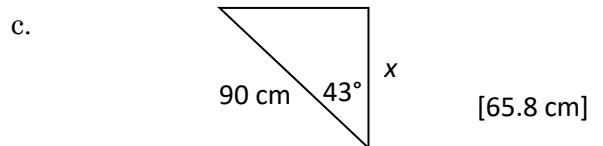
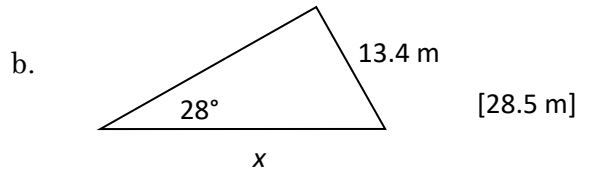
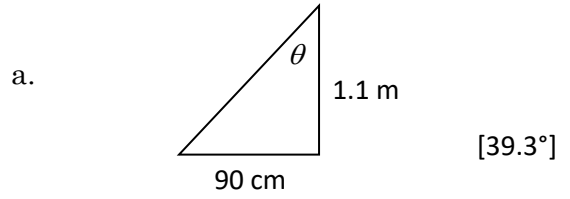
Name

Revision Sheet 24 - Trigonometry

7. Find the unknown in each of the following right-angled triangles:



8. Find the unknown in each of the following right-angled triangles.



Name

Revision Sheet 14 – Pythagoras and Trigonometry in 3D

1. A room is in the shape of a rectangular prism 6 m by 5 m and 3 m high. A string is stretched between the bottom back left corner and the top front right corner. Find the length of the string and the angle it makes with the floor. [8.37 m, 8.4°]

2. A square-based pyramid has a base area of 100 m^2 and a volume of 400 m^3 . Find the angle of elevation of the top of the pyramid from one of the bottom corners. [54°]

3. Hairy is standing at sea level. He sees a plane on a bearing of 130° and at an angle of elevation of 20° . If the plane is 4 km further south than the Hairy, find its altitude. [2265 m]