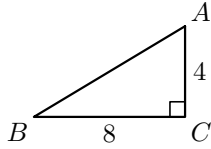
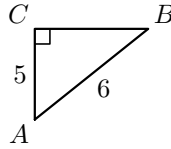


Make sure that your calculator is in degree mode

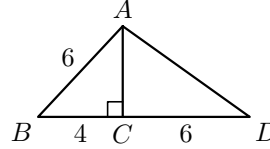
1. Use Pythagoras' theorem to calculate the unknown sides in the following triangles. Leave your answers in surds (eg $\sqrt{7}$).



(i) Find AB

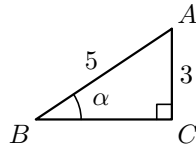


(ii) BC

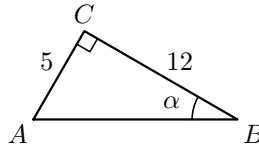


(iii) AC, AD

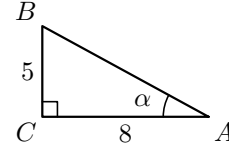
2. Calculate the quantities indicated in the following triangles.



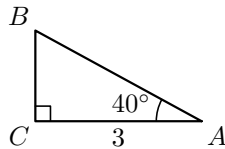
(i) $\sin, \cos, \tan \alpha$



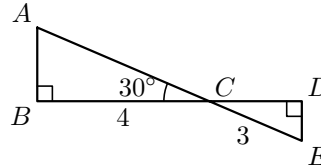
(ii) $\cot, \sec, \operatorname{cosec} \alpha$



(iii) α

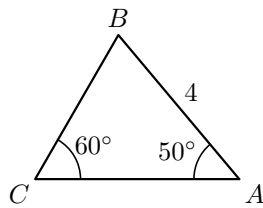


(iv) BC and AB

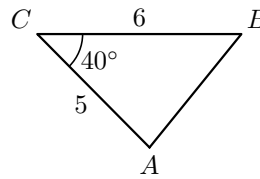


(v) AB, AC, DE and CD

3. Use the sine or cosine rule, as appropriate, to calculate the quantities indicated below.



(i) Find BC and AC



(ii) Find AB and the angle ABC