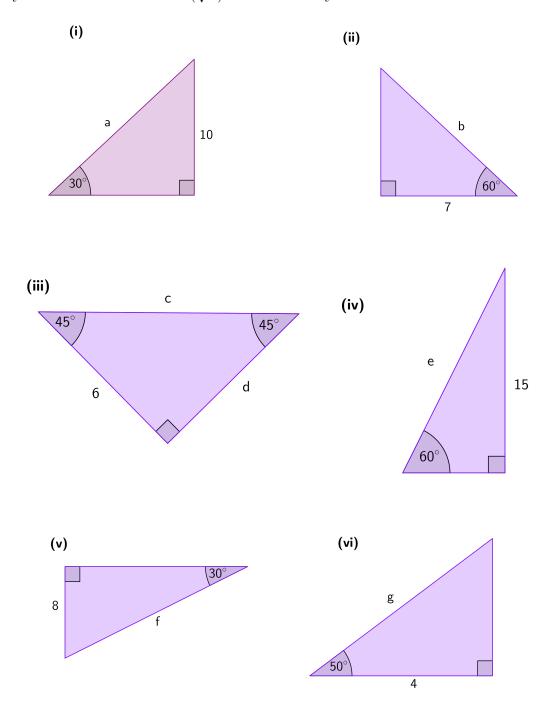
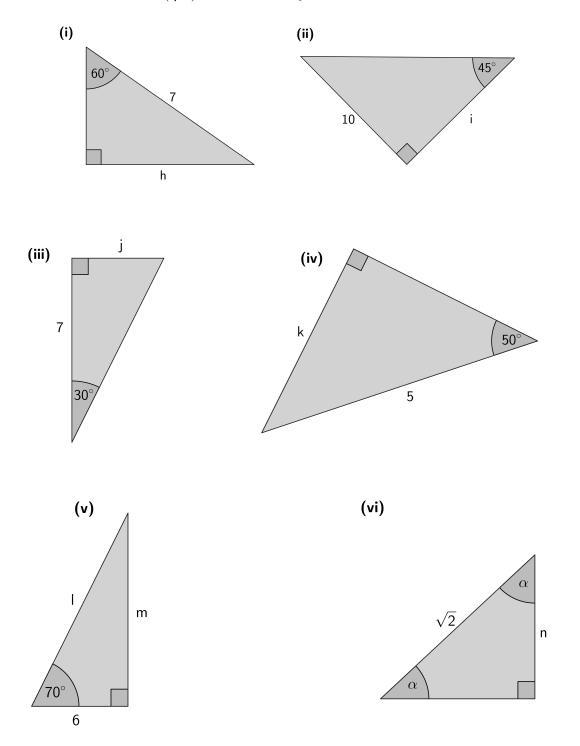
Sine, Cosine and Tangent (b)

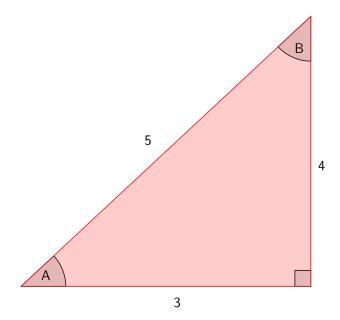
1. Find the lengths of the unknown sides in the following right-angled triangles, leaving your answer in surd form (\sqrt{a}) when necessary.



2. Calculate the lengths of the unknown sides in the following triangles, leaving your answer in surd form (\sqrt{a}) when necessary.



- 3. (i) In the following triangle, write down the sin and \cos of the angles labelled A and B.
 - (ii) Using your answers from (i), calculate $\sin^2 A + \cos^2 A$ and $\sin^2 B + \cos^2 B$, what can you conclude?



- 4. (i) Given that $\tan A = 2$, by drawing a suitable triangle calculate $\cos A$ and $\sin A$.
 - (ii) Using a similar method to (i), calculate $\tan B$ and $\cos B$ given that $\sin B = 1/2$.
 - (iii) Given that $\cos C = 2$, explain the error in this question.