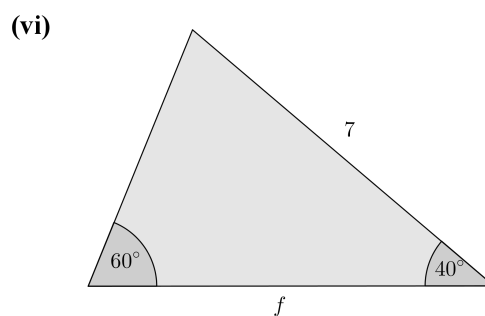
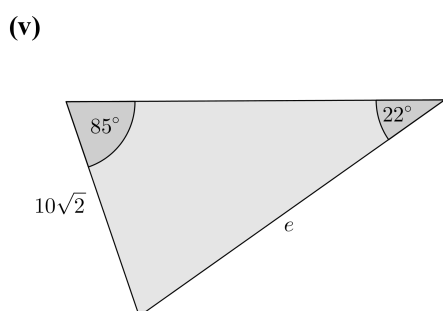
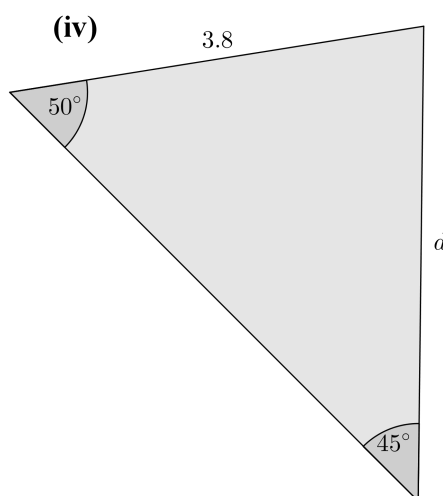
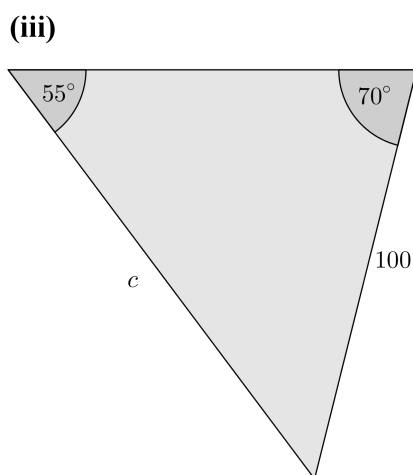
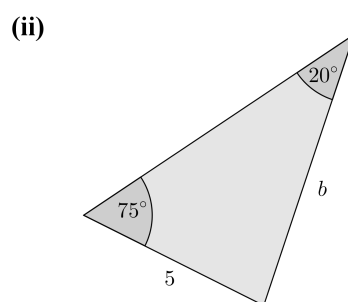
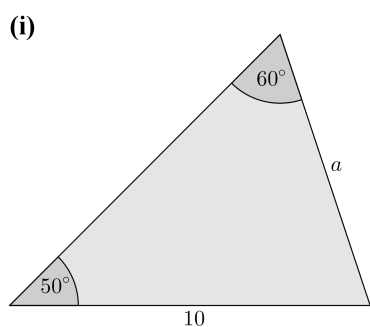
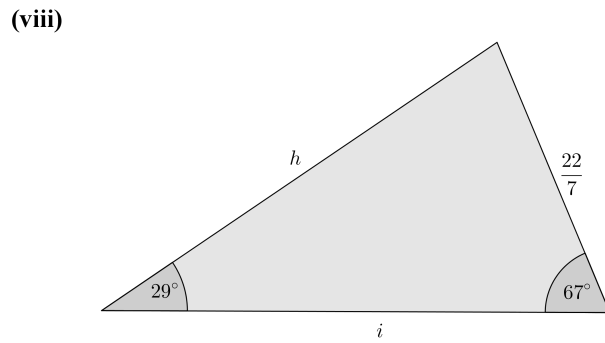
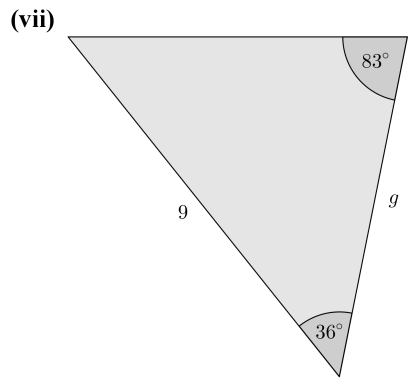


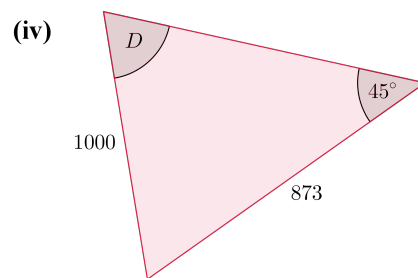
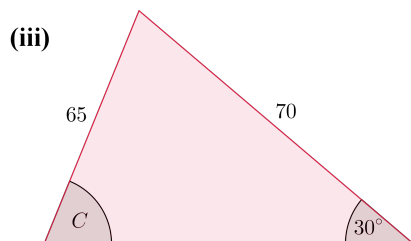
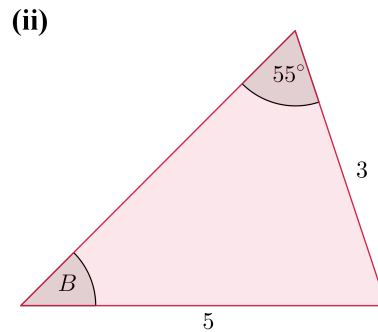
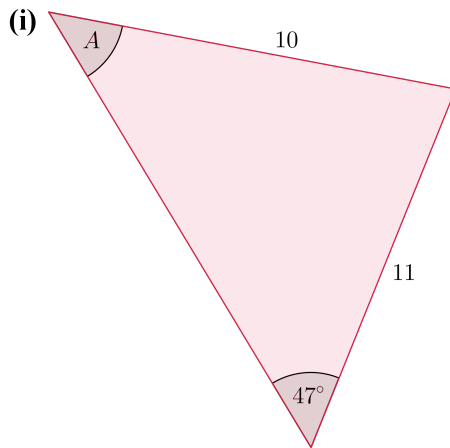
Sine Rule

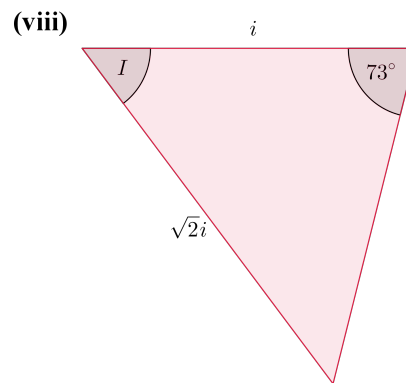
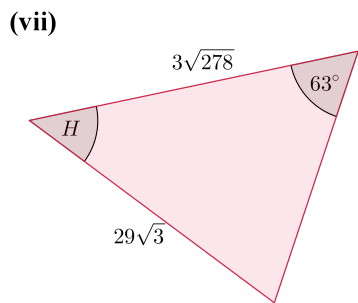
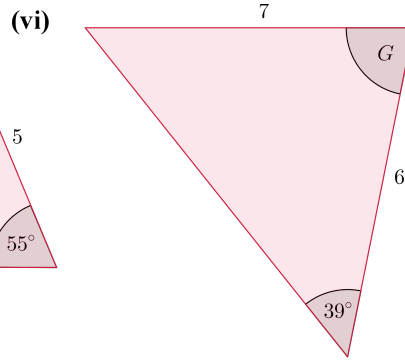
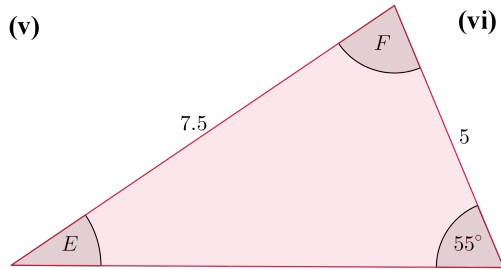
1. Calculate the unknown sides in each of the following triangles using the Sine Rule. Express your answer correct to two decimal places.





2. Calculate the unknown angles in each of the following triangles using the Sine Rule. Express your answer to the nearest degree.





3. St John's Cathedral claims to be the tallest spire in Ireland. Standing at point A in the diagram below, an Engineer measures the angle of inclination 30° . Then walking 129m closer to the spire at point B , he measures the angle 70° .
- Using the Engineers measurements and Sine Rule, approximate the height of the spire.
 - Recent evidence claims that the spire may not be as tall as earlier claimed, and is in fact closer to 79m. What should the Engineers angle measurements have read at points A and B ?

