

# **Angles in Polygons**

Downloadable Resource – Finding missing angles in polygons.



# Try this

Are these statements always true, sometimes true, or never true?

A quadrilateral has a reflex angle **and** an obtuse angle.

A right-angled triangle has 2 acute angles.

The sum of the interior angles in an octagon is double the sum of the interior angles in a quadrilateral.

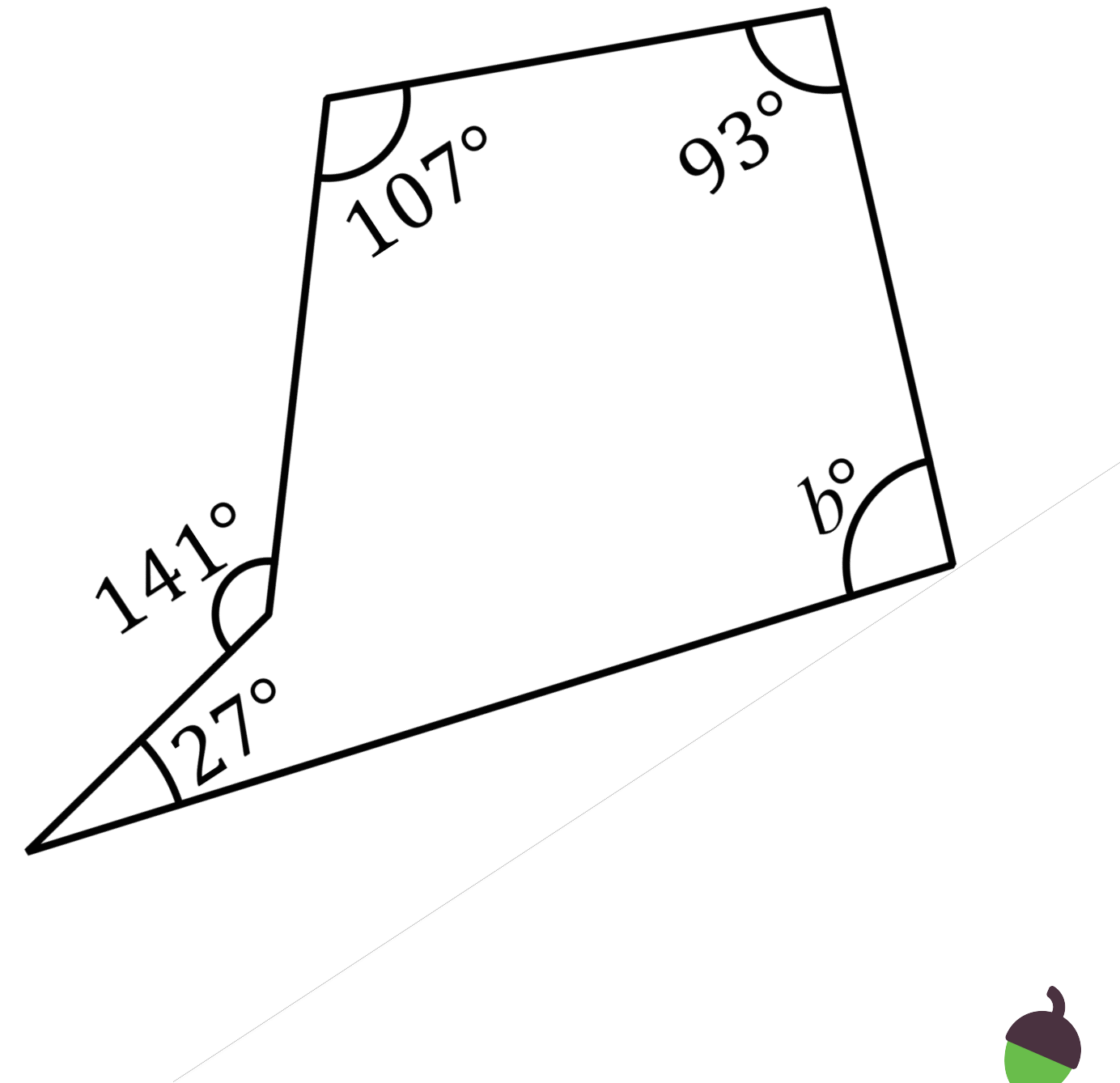
All the angles in a polygon are obtuse.

A regular hexagon has an interior angle of  $120^\circ$



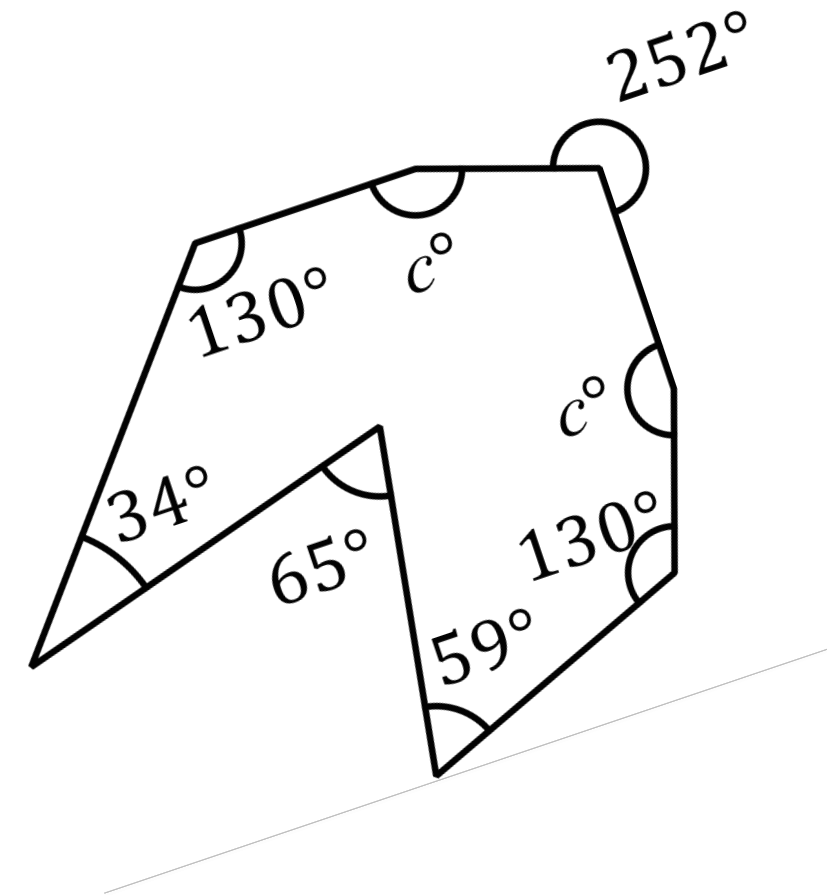
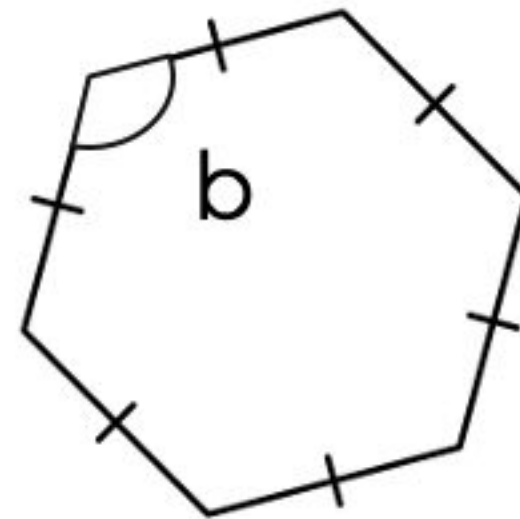
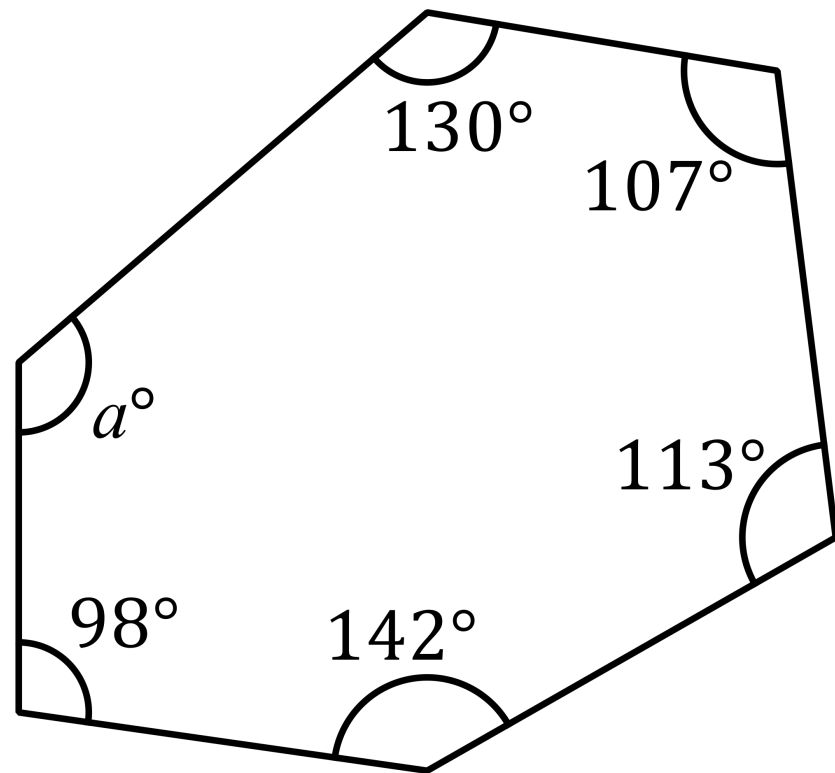
## Connect

Using the sum of the total interior angles in a polygon, find  $b$  in the polygon below.



# Independent Task

Using the sum of the total interior angles in a polygon, find the unknowns in the polygons below.



# Explore

Suggest angle sizes for these shapes.

