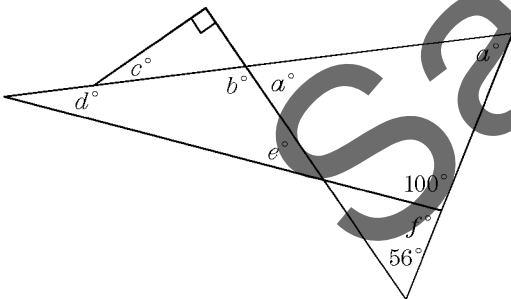


1. Find the total number of diagonals in a convex n -gon.

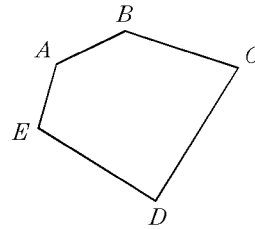
2. In a convex polygon, the sum of all the interior angles except one is 5000° . What is the least number of sides this polygon can have?

3. Use the diagram to determine these values:



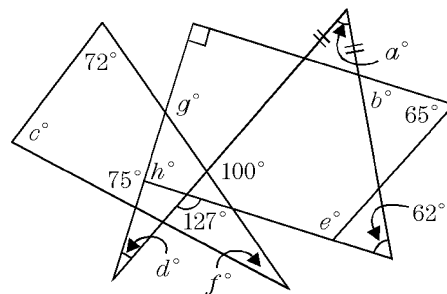
a	b	c	d	e	f

4. In the diagram, $m\angle A = 135$, $m\angle B = 135$, $m\angle C = 65$ and $m\angle D = 100$. What is the measure of $\angle E$?



5. Find the number of sides of a regular polygon with an interior angle measuring 150 degrees.

6. Use the diagram to determine these values:



a	b	c	d	e	f	g	h