

[1] It is almost 180° .

Suppose that it has four. Then the sum of the angles would be greater than 4×90 , or greater than 360° . But the sum of the angles in a quadrilateral is 360° , so we have arrived at a contradiction. Hence, a

[2] quadrilateral can have at most three obtuse angles.

Because each angle of the triangular piece is an exterior angle of the octagon, the angles are equal and

[3] the triangular piece is an isosceles right triangle.