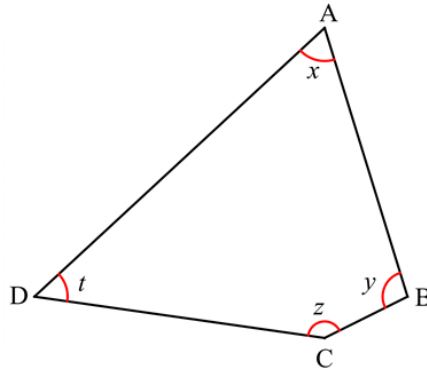
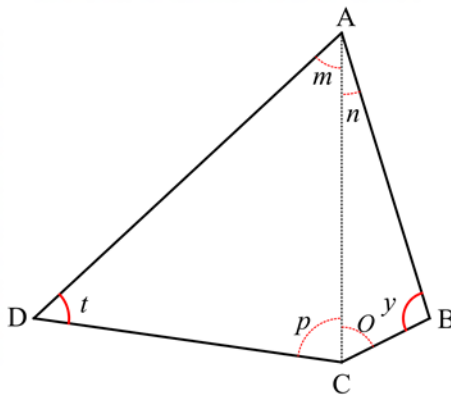


Sum of interior angles in a quadrilateral

Consider the quadrilateral ABCD below, with interior angles x , y , z and t



We draw a line between opposite summits A and C, which splits the quadrilateral into two triangles.



1. Remembering that the 3 interior angles of a triangle add up to 180 degrees, calculate:

a. $n + y + o =$

b. $m + p + t =$

2. Calculate the sum $(n + y + o + p + t + m)$

3. Recognising that $x = m + n$ and that $z = p + o$, what can you conclude for the sum $(x + y + z + t)$ of the 4 interior angles of ANY quadrilateral?