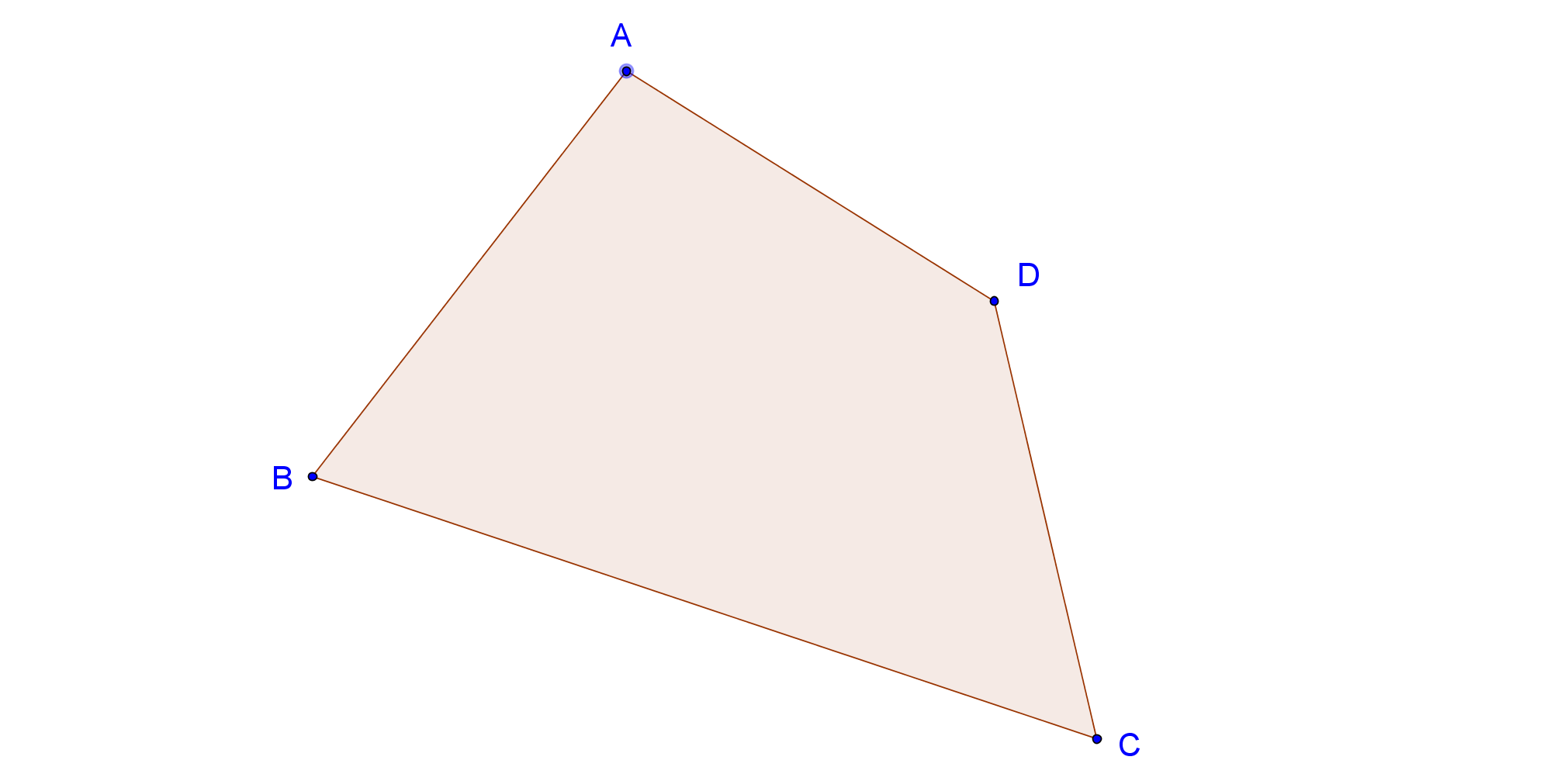
**Activity 3.1.3a Proving the Quadrilateral Sum Theorem**

Fill in the blanks for the proof of the Quadrilateral Sum Theorem.

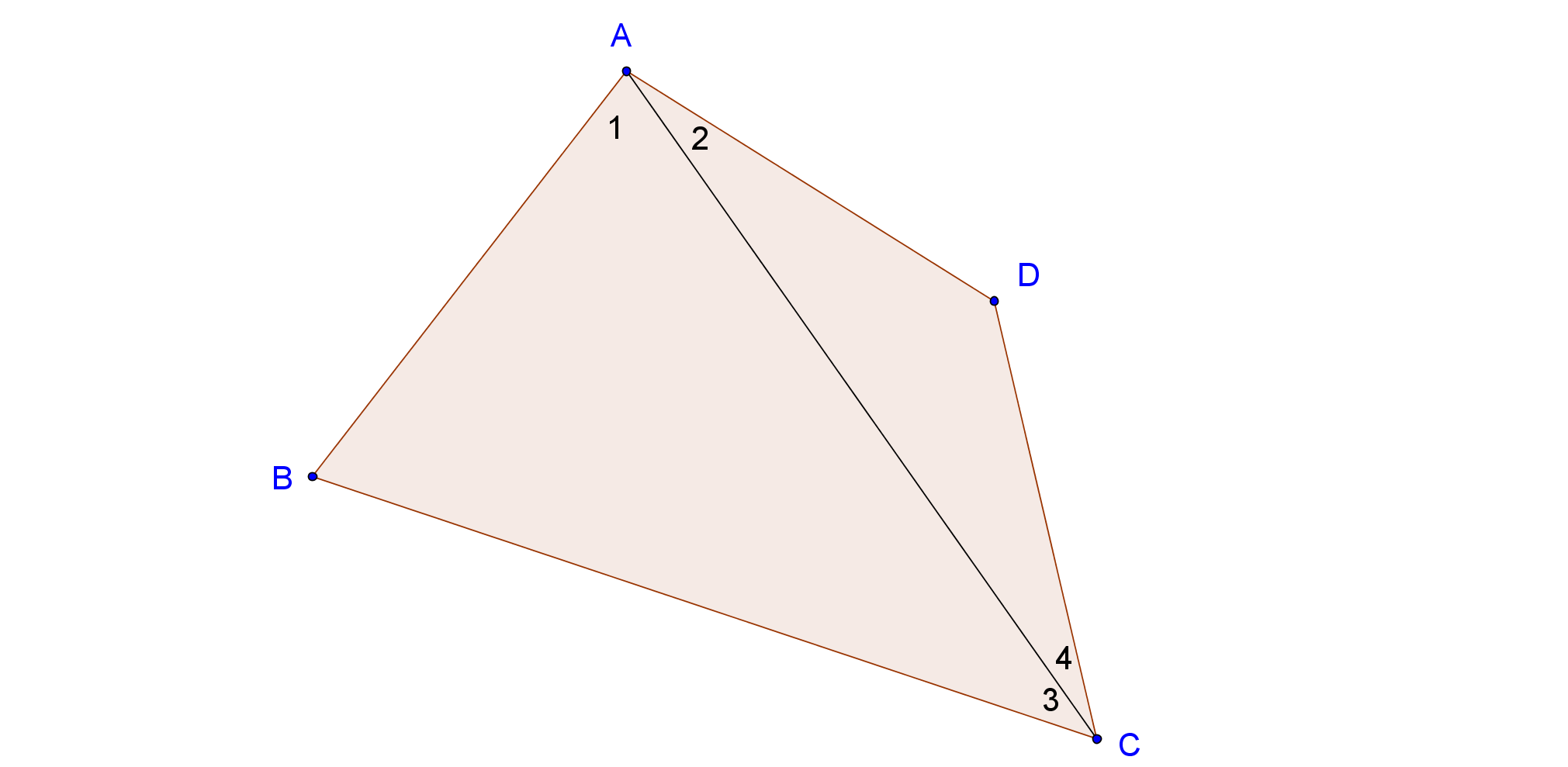
**Quadrilateral Sum Theorem:** The sum of the interior angle measures in any quadrilateral is 360°.



Given: *ABCD* is a quadrilateral

Prove:

Draw diagonal . We can do this because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



. We know this because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

. We know this because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

. We know this because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

, because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

, because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

, because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_