

# Cyclic quadrilaterals

A cyclic quadrilateral is a four sided shape which has the following properties:

- All four vertices lie on the circumference of a single circle.
- Opposite interior angles sum to  $180^\circ$ .

Which of the following **cannot** be a cyclic quadrilateral?

- a square
- a rectangle that is not a square
- a rhombus that is not a square
- a kite that is not a rhombus
- a parallelogram that is not a rhombus
- a trapezium that is not a parallelogram
- an arrowhead.

