QUADRILATERALS

Quadrilaterals are **four-sided** polygons.
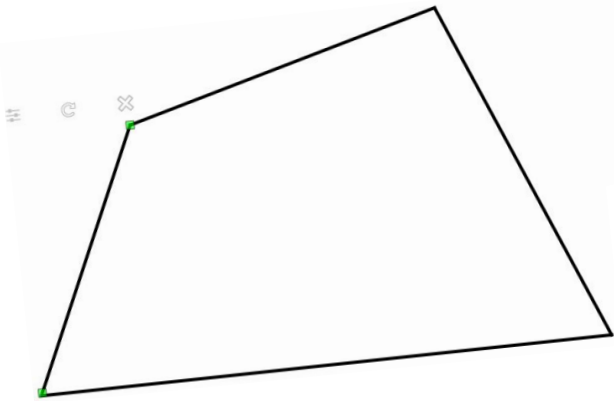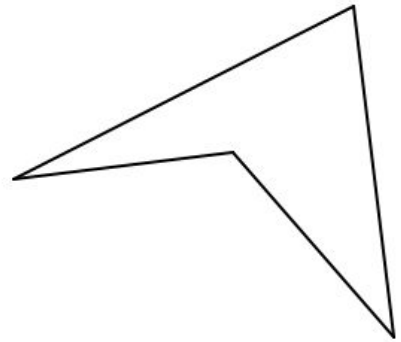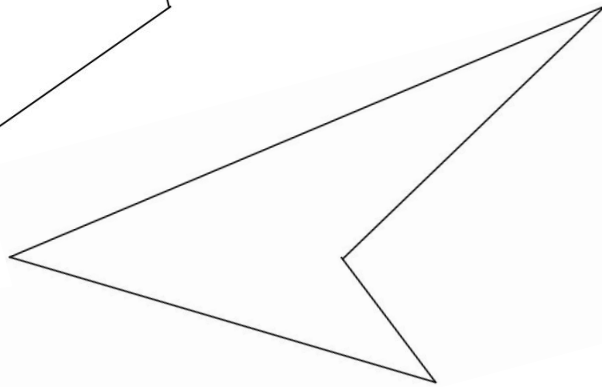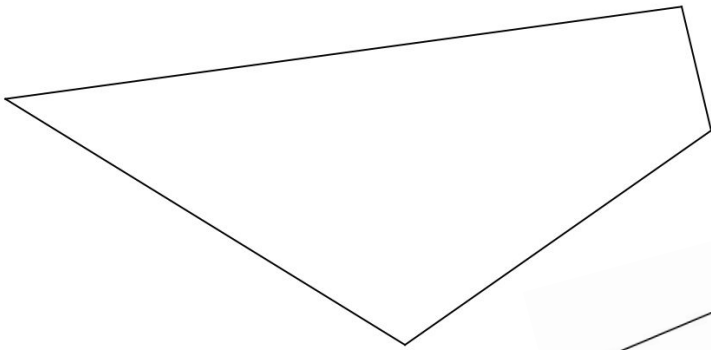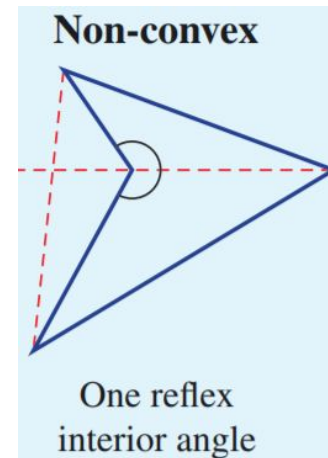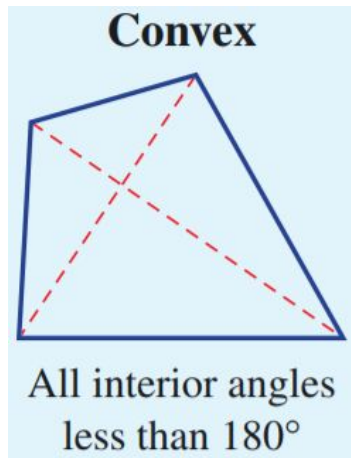
CONVEX and NON-CONVEX QUADRILATERALS

Every quadrilateral has two diagonals. When the diagonals cross each other, we say the quadrilateral is convex. Otherwise the quadrilateral is non-convex (or concave).

Convex — All interior angles less than 180°

Non-convex — One reflex interior angle

Non-convex quadrilaterals have one vertex pointing inwards.
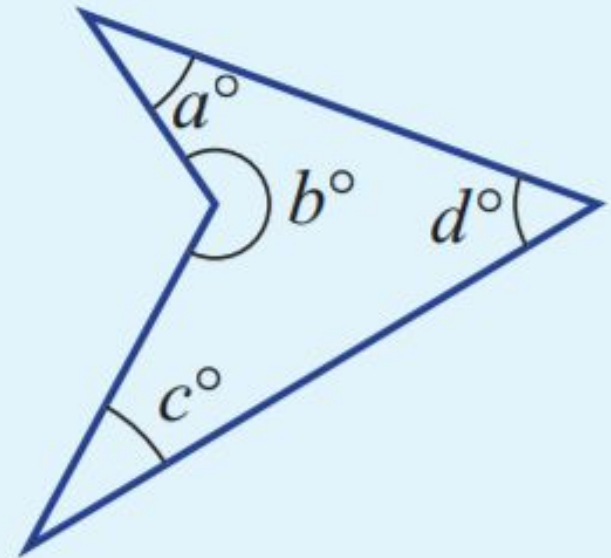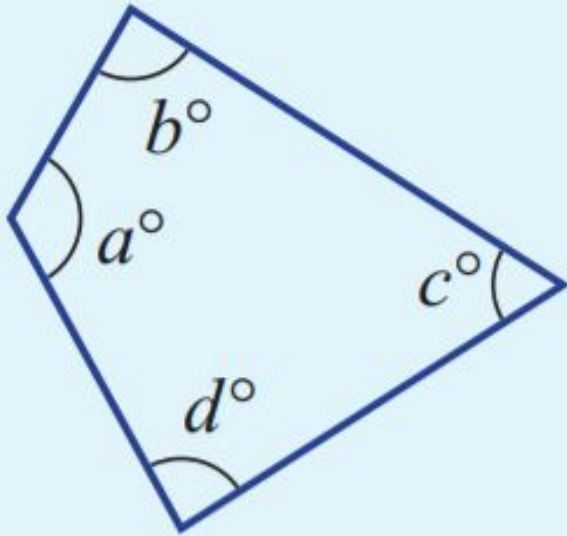Both diagonals of convex quadrilaterals lie inside the figure.

SPECIAL QUADRILATERALS
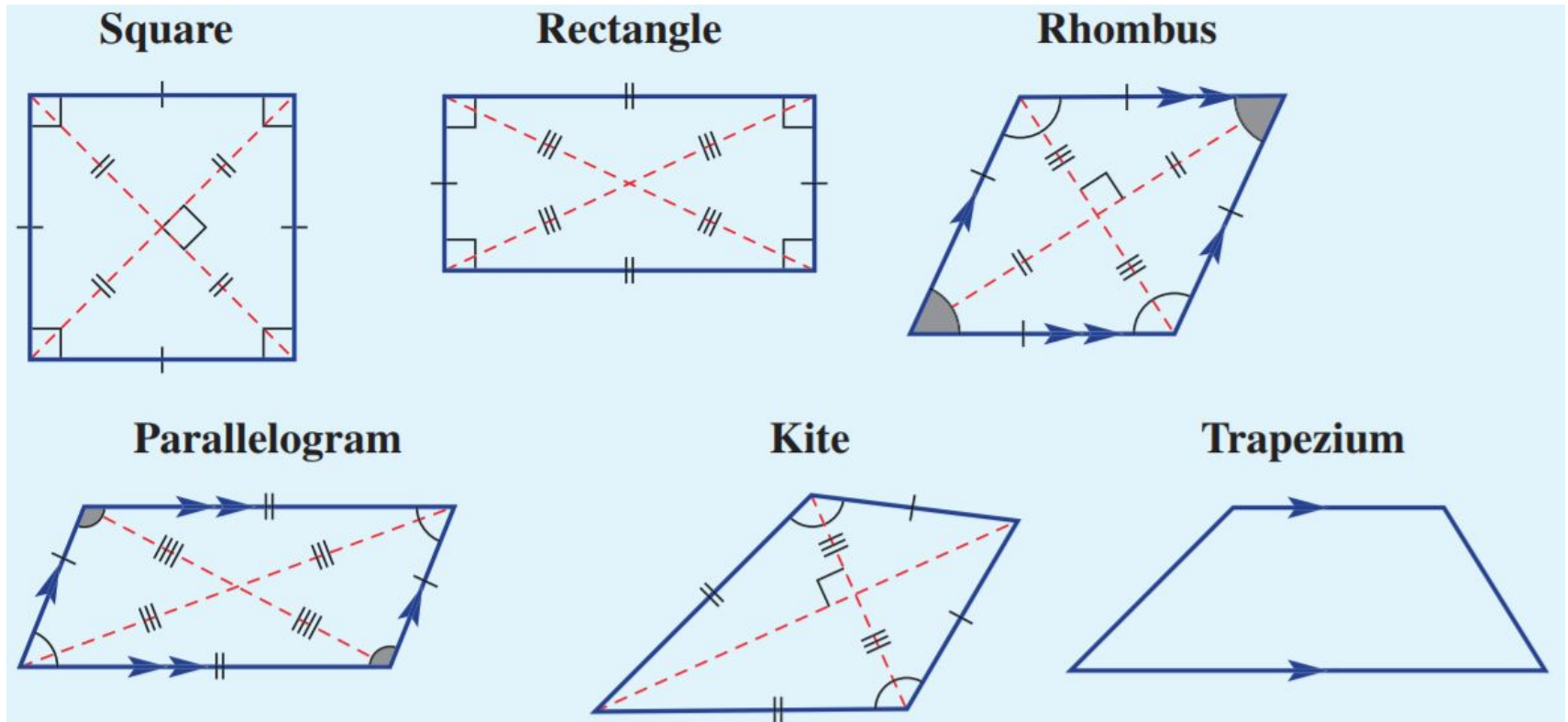
For the square, rhombus and kite, the diagonals bisect each other at right angles.

ANGLE SUM OF QUADRILATERALS

■ The angle sum of any quadrilateral is 360°.

$$a + b + c + d = 360$$