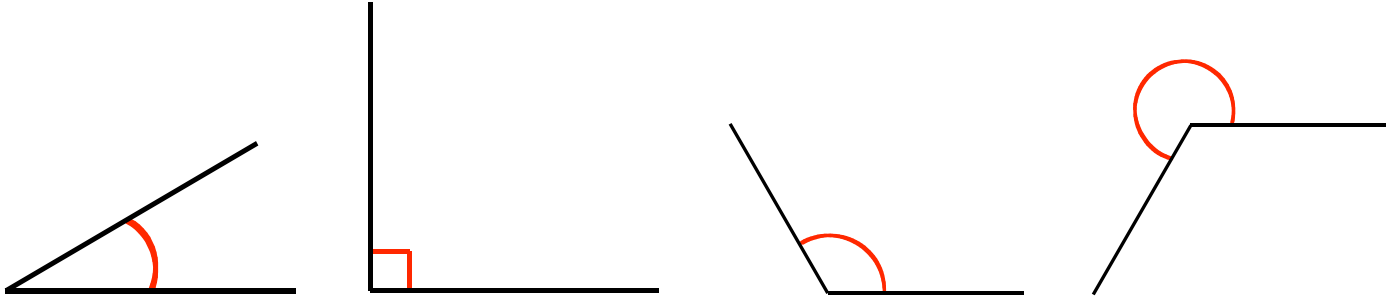


Angles

Types of angle



acute

less than 90°

right

exactly 90°

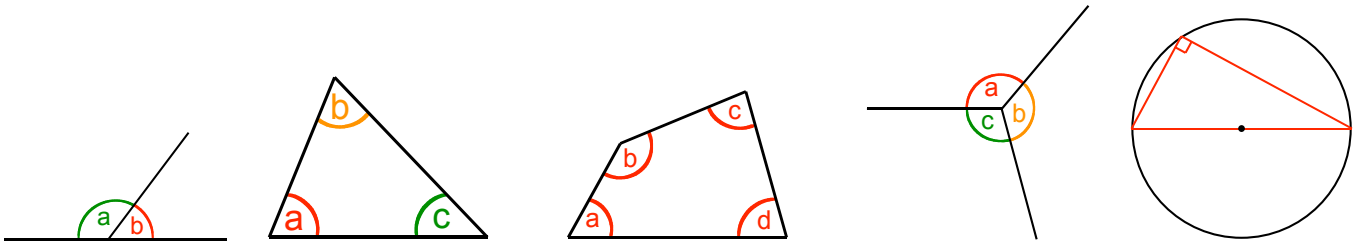
obtuse

between 90° and 180°

reflex

more than 180°

Angle properties



Angles on a straight line add up to 180°

Angles in a triangle add up to 180°

Angles in a quadrilateral add up to 360°

Angles round a point add up to 360°

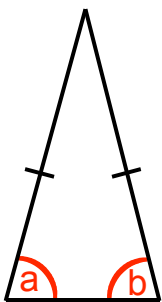
The angle in a semicircle is 90°

$$a + b = 180^\circ$$

$$a + b + c = 180^\circ$$

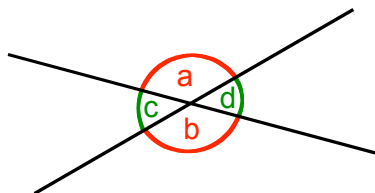
$$a + b + c + d = 360^\circ$$

$$a + b + c = 360^\circ$$



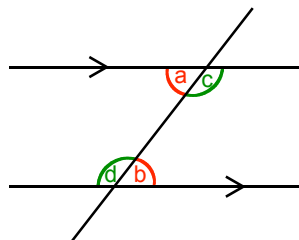
In an isosceles triangle, the base angles are equal

$$a = b$$



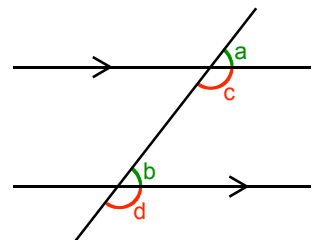
Where lines cross, opposite angles are equal

$$a = b \text{ and } c = d$$



On parallel lines, alternate angles are equal

$$a = b \text{ and } c = d$$



Corresponding angles are equal

$$a = b \text{ and } c = d$$