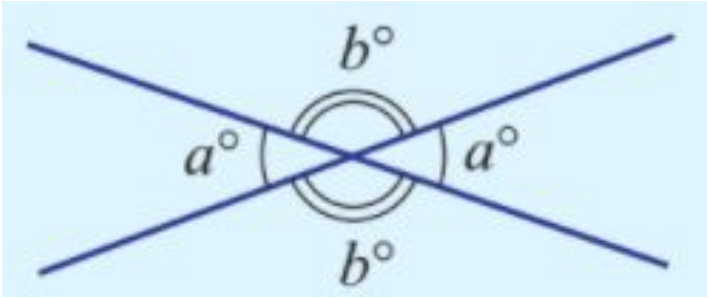
VERTICALLY OPPOSITE ANGLES

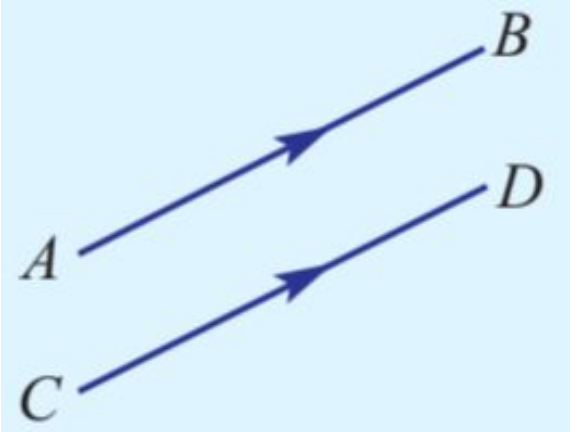
Vertically opposite angles are formed when two lines intersect.



Vertically opposite angles are **equal**.

PARALLEL LINES

In a plane, parallel lines are lines that never cross.

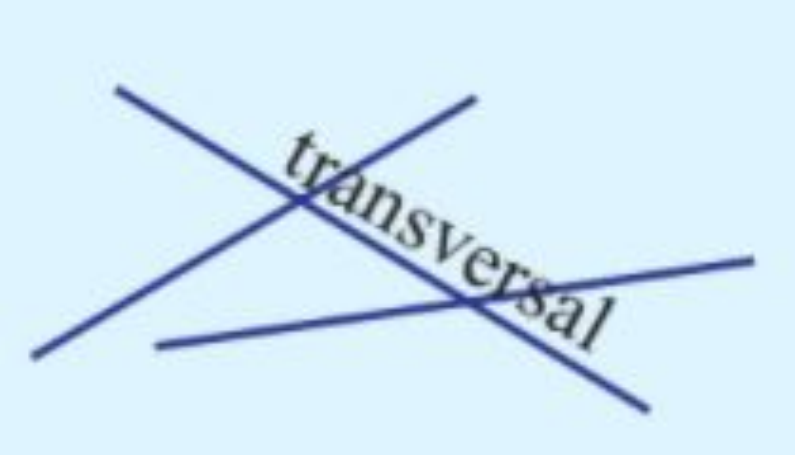


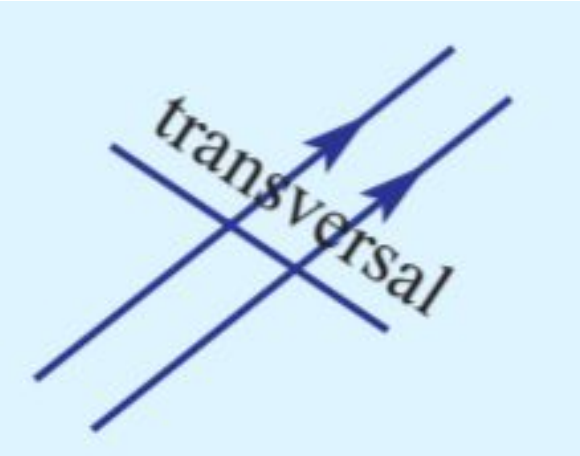
Parallel lines are marked with the same arrow set.

If lines AB and CD are parallel, we write: AB ∥ CD

TRANSVERSAL LINES

A transversal is a line intersecting two or more other lines.





TRANSVERSAL LINES

A transversal line crossing two lines will form special pairs of angles:

- corresponding angles

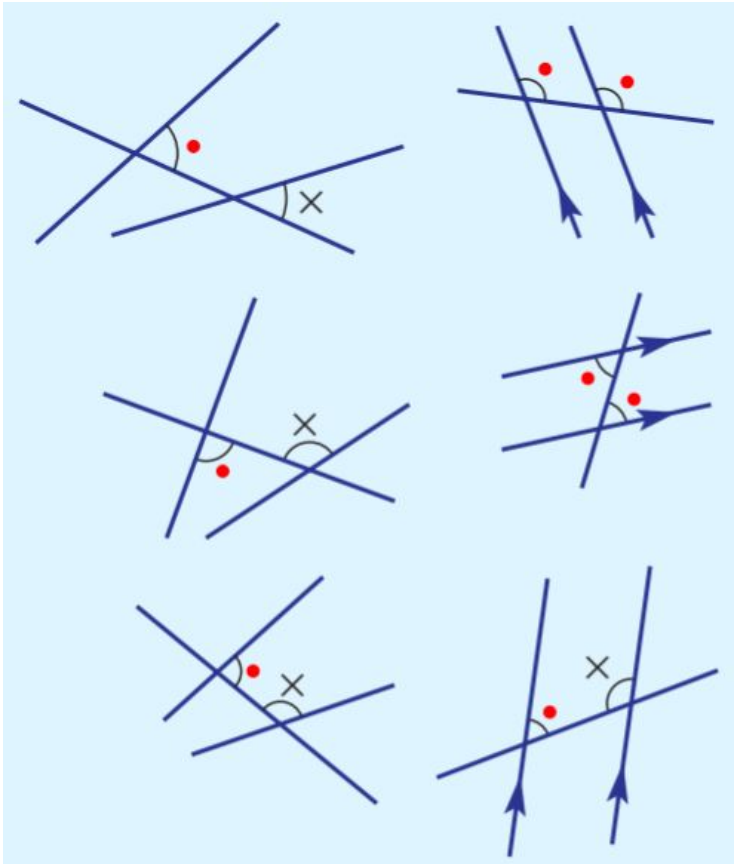
(in corresponding positions)

- alternate angles

(on opposite sides of the transversal)

- cointerior angles

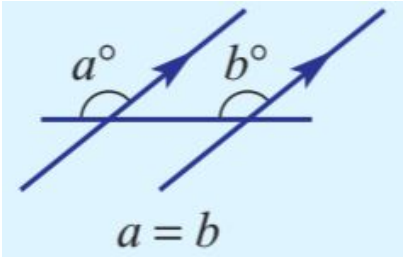
(on the same side of the transversal)



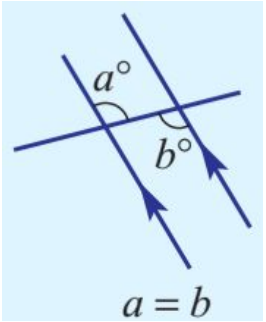
ANGLES ON PARALLEL LINES

If a transversal line crosses two parallel lines, then:

- corresponding angles on parallel lines are **equal**



- alternate angles on parallel lines are **equal**



- co-interior angles on parallel lines are **supplementary**