



MATHSGYM

maths is fun

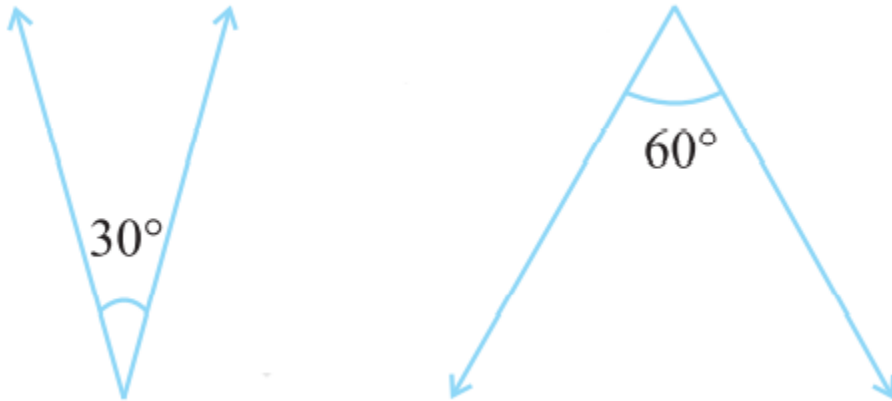
LINES & ANGLES _TRICKS & TIPS_51

02/07/2020



Complementary Angles

- When the **sum of the measures of two angles is 90°** , the angles are called **complementary angles**.



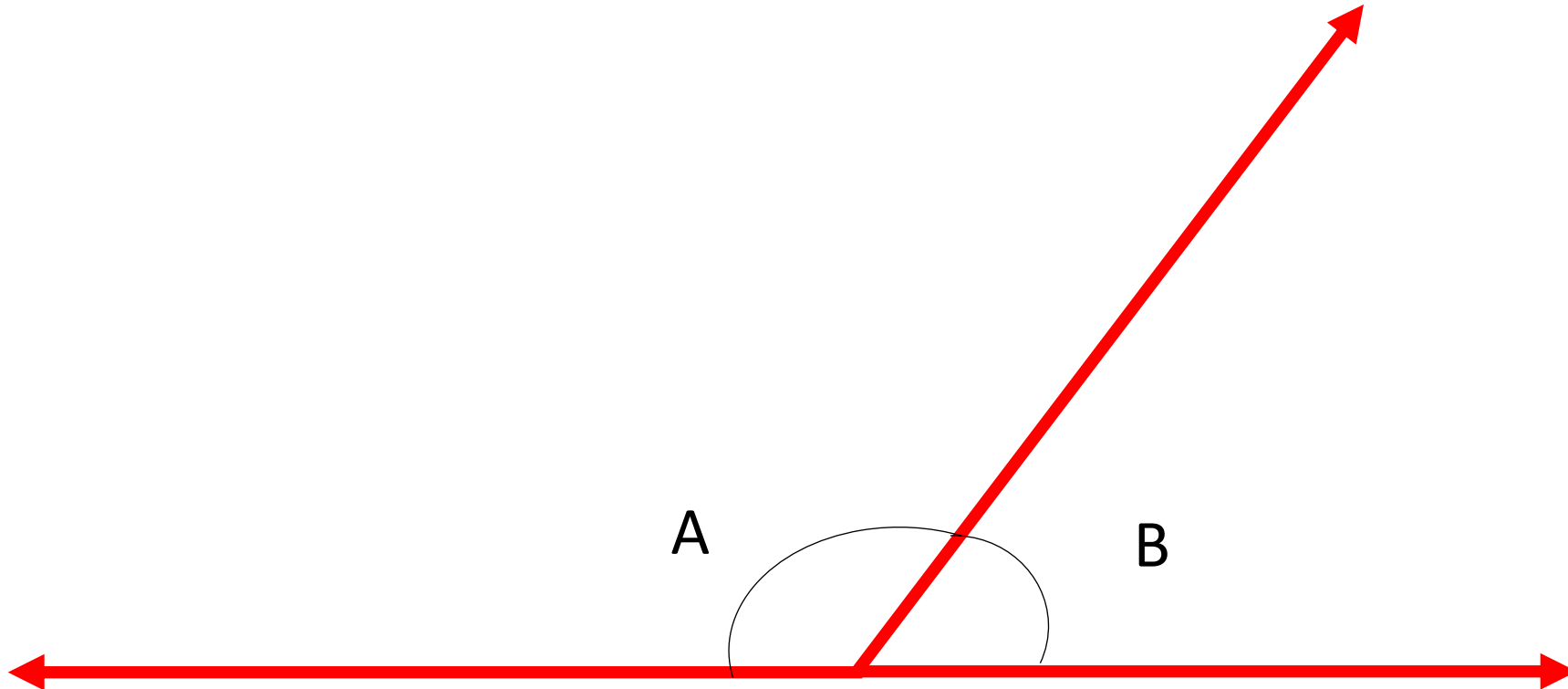
Whenever two angles are complementary, each angle is said to be the **complement of** the other angle

' 30° angle' is the complement of the ' 60° angle' and vice versa



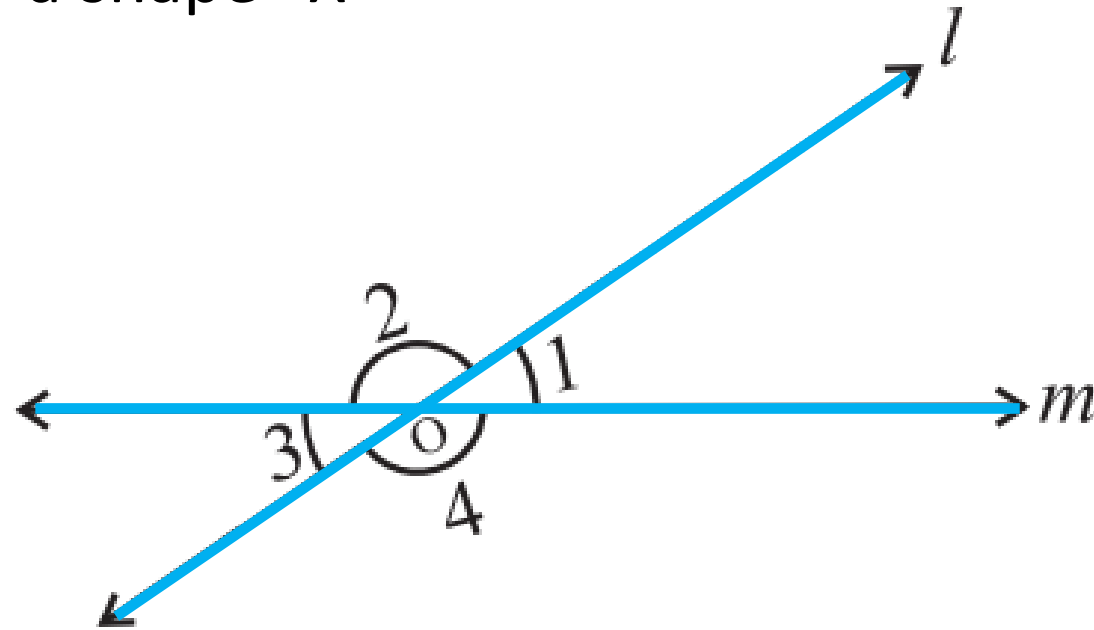
LINEAR ANGLE (SUPPLEMENTARY ANGLE)

- SEARCH FOR **STRAIGHT LINE** FORMED BY THE ANGLES
- $\angle A + \angle B = 180^\circ$



VERTICALLY OPPOSITE ANGLES

- When **two lines intersect**, the **vertically opposite angles** so formed are **equal**.
- Look for a shape “X”

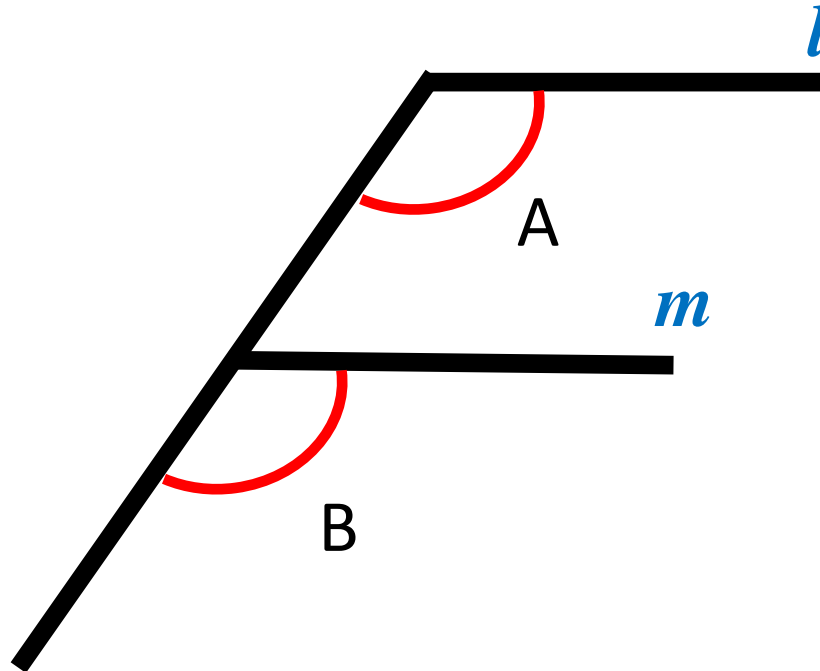


$$\angle 1 = \angle 3$$

$$\angle 2 = \angle 4$$

EQUAL ANGLES IN PARALLEL LINES – CORRESPONDING ANGLES ARE EQUAL

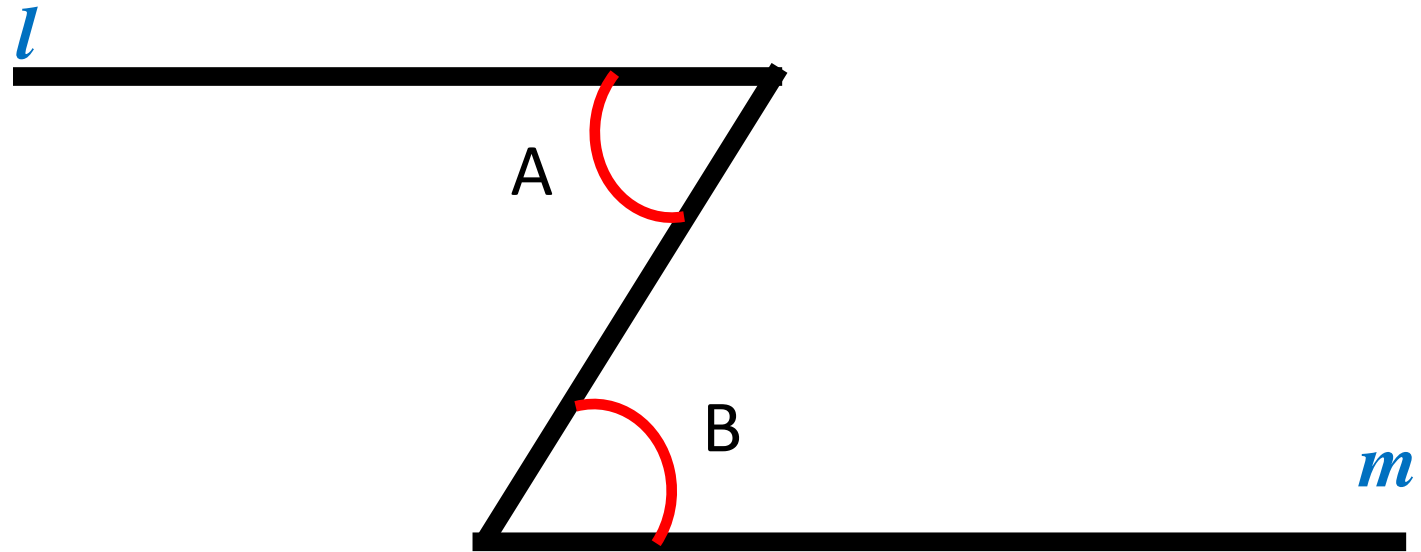
- *line l is parallel to line m*
- SEARCH FOR **F** SHAPE
- $\angle A = \angle B$





EQUAL ANGLES IN PARALLEL LINES – INTERNAL ALTERNATE ANGLES

- *line l is parallel to line m*
- SEARCH FOR Z SHAPE
- $\angle A = \angle B$



INTERIOR ANGLE ON SAME SIDE OF TRANSVERSAL ARE SUPPLEMENTARY

- *line l is parallel to line m*
- SEARCH FOR **C** SHAPE
- $\angle A + \angle B = 180^\circ$

