

ANGLE FACTS INCLUDING ON PARALLEL LINES

Geometry and Measures

Key Concepts

Angles in a **triangle equal 180°**.

Angles in a **quadrilateral equal 360°**.

Vertically opposite angles are equal in size.

Angles on a **straight line equal 180°**.

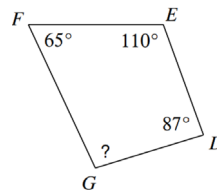
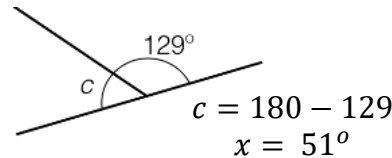
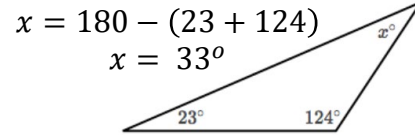
Base angles in an isosceles triangle are equal.

Alternate angles are equal in size.

Corresponding angles are equal in size.

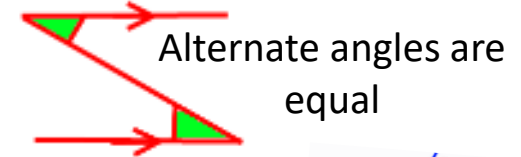
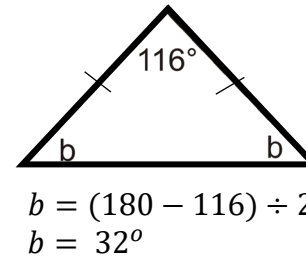
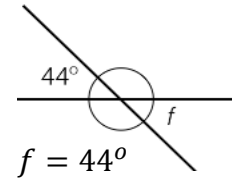
Allied/co-interior angles are equal 180°.

Examples

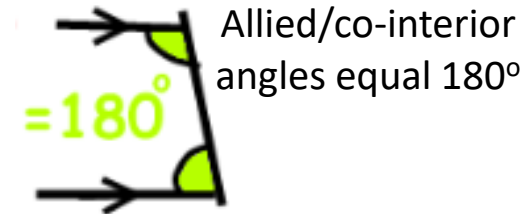
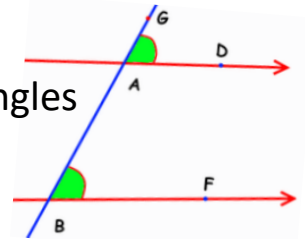


$$? = 360 - (65 + 110 + 87)$$

$$? = 98^\circ$$



Corresponding angles are equal



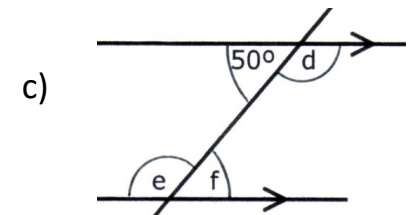
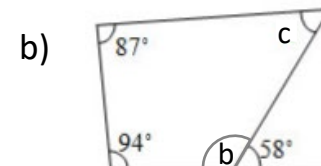
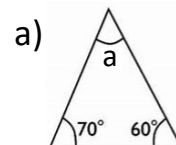
45, 121, 122,
123

Key Words

Angle
Vertically opposite
Straight line
Alternate
Corresponding
Allied
Co-interior

Questions

Calculate the missing angle:



ANSWERS: 1) a=50° 2) b=122° c=57° 3) d=130° e=130° f=50°