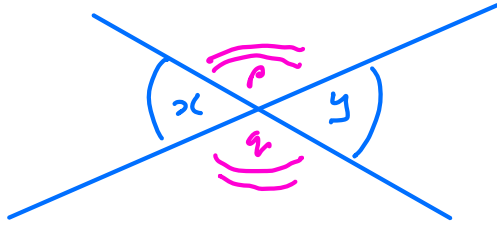


Geometric Reasoning



Vertically Opposite Angles
are equal

$$x = y$$

$$p = q$$

Key Point

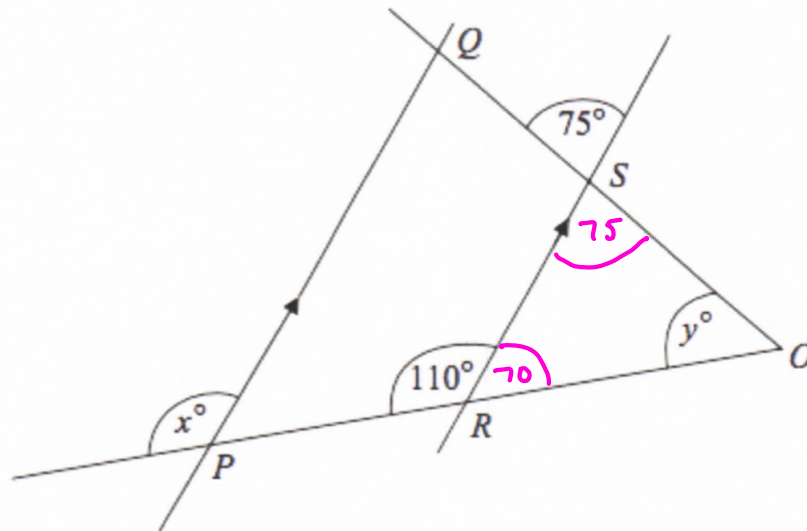
Be able to find the interior angle of
any regular polygon

For n -sided regular polygon

$$\text{exterior angle} = \frac{360^\circ}{n}$$

$$\text{interior angle} = 180^\circ - \frac{360^\circ}{n}$$

Geometry - Parallel Lines



PQ is parallel to RS .

OSQ and ORP are straight lines.

(a) (i) Write down the value of x . $x = 110^\circ$

(ii) Give a reason for your answer.

corresponding angles
are equal (2)

(b) Work out the value of y .

$$\angle RSO = 75^\circ \text{ (vert opp } \angle\text{s)}$$

$$\angle SRO = 70^\circ \text{ (adj } \angle\text{s on a str line)}$$

$$y = (180 - 75 - 70) \text{ (} \angle \text{ sum of } \triangle \text{)} \quad 35^\circ$$

$$y = 35^\circ \quad (2)$$