

Name

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Std.

VII

~~Div.~~

sec - B

4. Find  $y$  in the given figures.

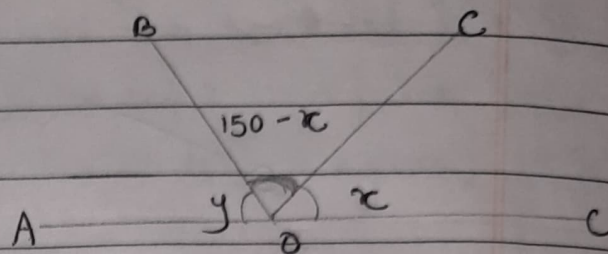
AOC is a straight line

$$\angle AOB + \angle BOD + \angle DOC = 180^\circ$$

$$y + 150^\circ - x + x = 180^\circ$$

$$y + 150^\circ = 180^\circ$$

$$y = 180^\circ - 150^\circ = 30^\circ$$



5. In the given figure, find  $\angle PQR$

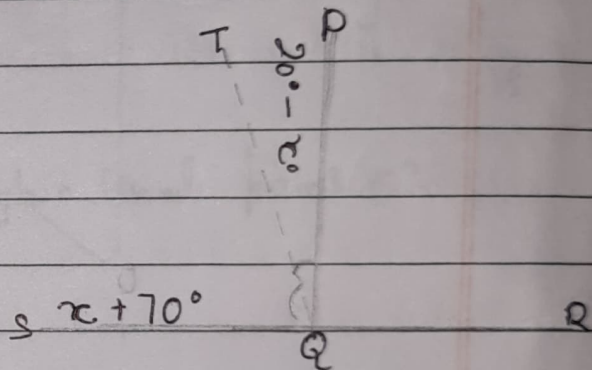
SQR is a straight line

$$\angle SQT + \angle TQP + \angle PQR = 180^\circ$$

$$x + 70^\circ + 20^\circ - x + \angle PQR = 180^\circ$$

$$\angle PQR = 180^\circ - 90^\circ = 90^\circ$$

$$\text{So } \angle PQR = 90^\circ$$



6. In the given figure  $p^\circ = q^\circ = r^\circ$ , find each

$$p^\circ + q^\circ + r^\circ = 180^\circ \quad (\text{straight angle})$$

$$\text{But } p^\circ = q^\circ = r^\circ$$

$$p^\circ + p^\circ + p^\circ = 180^\circ$$

$$3p^\circ = 180^\circ = p^\circ = \frac{180^\circ}{3} = 60^\circ \quad \text{So } p^\circ = q^\circ = r^\circ = 60^\circ$$

