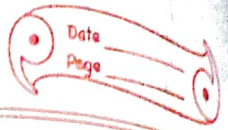


R.H
30.9.21



Revision Home assignment

4. AOC is a straight line

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

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

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

Hence, $y = 30^\circ$

5. SQR is a straight line

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

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

$$\Rightarrow 90^\circ + \angle PQR = 180^\circ$$

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

Hence, $\angle PQR = 90^\circ$

6. $p^\circ + q^\circ + r^\circ = 180^\circ$ (straight angle)

But $p^\circ = q^\circ = r^\circ$ (given)

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

$$\Rightarrow 3p^\circ = 180^\circ$$

$$\Rightarrow p^\circ = \frac{180^\circ}{3} = 60$$

Hence $p^\circ = q^\circ = r^\circ = 60^\circ$