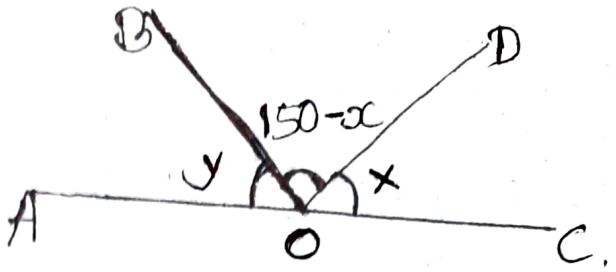
4. Find y in the given figure. →



Ans.: $\because$ AOC is a straight line.

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

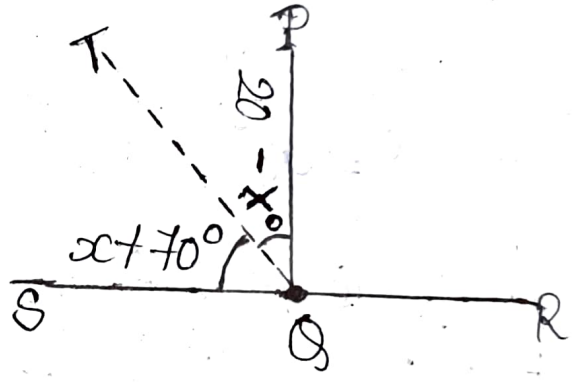
$= y + 150^\circ - x + x = 180^\circ$

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

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

$y = 30^\circ$

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



SQR is a straight line.

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

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

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

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

$\angle PQR = 90^\circ$

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

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

$p^\circ = q^\circ = r^\circ$.

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

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

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