Home Work

Lines and Angles, Ch-#14

Exercise # 14 (A) Q: 4, 5, 6

Q-4# ∴ AOC is a straight angle line.

∴ $\angle AOC + \angle BOD + \angle DOC = 180^0$

$\Rightarrow y + 150^0 - x + x = 180^0$

$\Rightarrow y + 150^0 = 180^0$

$\Rightarrow y = 180^0 - 150^0 = 30^0$

So, $y = 30^\circ$

Q-5) $\angle SQR$ is a straight angle,

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

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

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

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

Hence $\angle PQR = 90^\circ$

Q6) $p^\circ + q^\circ + r^\circ = 180^\circ$

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

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

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

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

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