Congruence Ex 16.1 Q3

Answer :

We have,

$\angle POQ \cong \angle ROS$ (1)

Also, $\angle ROQ \cong \angle ROQ$ (same angle)

Therefore, adding $\angle ROQ$ to both sides of (1), we get:

$\angle POQ + \angle ROQ \cong \angle ROQ + \angle ROS$

Therefore, $\angle POR \cong \angle QOS$

Hence proved.

Congruence Ex 16.1 Q4

Answer :

We have,

$\angle AOB = \angle BOC = \angle COD$

Therefore, $\angle AOB = \angle COD$

Also, $\angle AOB + \angle BOC = \angle BOC + \angle COD$

$\angle AOC = \angle BOD$

Hence, $\angle AOC \cong \angle BOD$

$\angle BOD$ is congruent to $\angle AOC$

Congruence Ex 16.1 Q5

Answer :

Two right angles are congruent to each other because they both measure 90 degrees.

We know that two angles are congruent if they have the same measure.

*********** END *********