

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,

∠AOB = ∠BOC = ∠COD

Therefore, ∠AOB = ∠COD

Also, ∠AOB + ∠BOC = ∠BOC + ∠COD

∠AOC = ∠BOD

Hence, ∠AOC ≅ ∠BOD

∠BOD is congruent to ∠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 *******