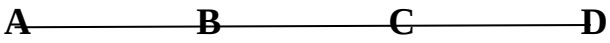
## EXERCISE – 15A

**Q-2. Given** AB $\cong$ CD **, state whether** AC $\cong$ BD **and why?**




Sol : Given that = AB $\cong$ CD

To prove : AC $\cong$ BD

Proof : AB $\cong$ CD ( Given )

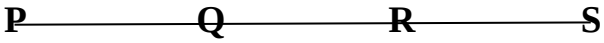
Adding BC on both sides

AB + BC $\cong$ CD + BC

AC $\cong$ BD

Hence proved .

**Q-3. Given** PR $\cong$ QS **,is** PQ $\cong$ RS **and why?**




Sol : Given that = PR $\cong$ QS

To prove : PQ $\cong$ RS

Proof : PR $\cong$ QS ( Given )

Subtracting QR on both sides

PR – QR $\cong$ QS - QR

PQ $\cong$ RS

Hence proved.