



1) Write down the conclusion that can be taken using axioms in each case given below.

i) $AB = BC$
 $AB = PQ$

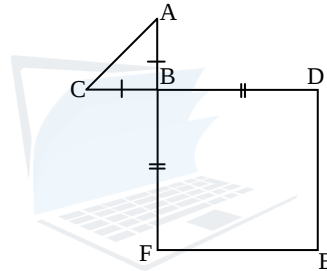
ii) $a + b = 90^\circ$
 $x + y = 90^\circ$

iii) $\hat{AOB} = 50^\circ$
 $\hat{XYZ} = 50^\circ$

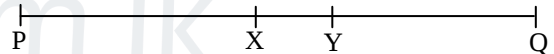
iv) $XY = 5.3 \text{ cm}$
 $ST = 5.3 \text{ cm}$

v) $\hat{LMN} = \hat{PQR}$
 $\hat{KLM} = \hat{PQR}$

2) If $AB = BC$ and $BD = BF$, what is the conclusion you observed using axioms.



3) If $PX = YQ$ show that, $PY = XQ$ using axioms



If, $\hat{AOC} = \hat{BOD}$ show that, $\hat{AOB} = \hat{COD}$ using axioms

