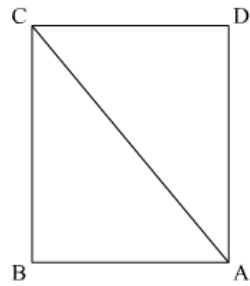




Congruent Triangles Ex 10.6 Q9

**Answer :**

(1) We have to prove that  $CD + DA + AB + BC > 2AC$



In  $\triangle ABC$  we have

$AB + BC > AC$  (As sum of two sides of triangle is greater than third one) .....(1)

In  $\triangle ACD$  we have

$AD + CD > AC$  (As sum of two sides of triangle is greater than third one) .....(2)

Hence

Adding (1) & (2) we get

$AB + BC + AC + CD > 2AC$  Proved.

(2) We have to prove that  $CD + DA + AB > BC$

In  $\triangle ACD$  we have

$CD + DA > CA$  (As sum of two sides of triangle is greater than third one)

$\Rightarrow CD + DA + AB > CA + AB$  (Adding  $AB$  both sides)

$CD + DA + AB > BC$  Proved.

Congruent Triangles Ex 10.6 Q10

# Answer :

(1) ☐ *F*

(2) ☐ *T*

(3) ☐ *T*

(4) ☐ *F*

(5) ☐ *T*

(6) ☐ *T*

## Answer :

- (1) Largest
- (2) Less
- (3) Greater
- (4) Smaller
- (5) Less
- (6) Greater

\*\*\*\*\* END \*\*\*\*\*