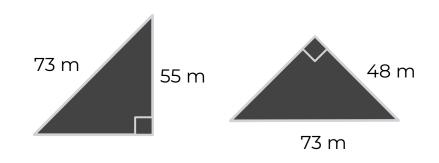
Prove Triangles are Congruent

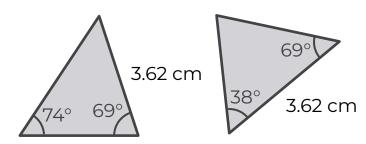
Mr Bond

Please note this downloadable resource contains some colored font



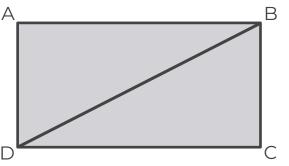
1. Prove that the triangles are congruent. State any conditions of congruency used. Show that the triangles are congruent.
State the condition of congruency used.





3. ABCD is a rectangle.

BD is the diagonal of the rectangle.



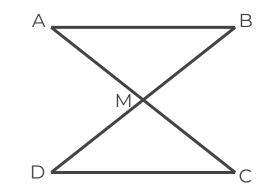
Prove that ABD and BCD are

congruent triangles.

State any conditions of congruency used.

4. Line segments AB and CD are parallel.

M is the midpoint of BC.



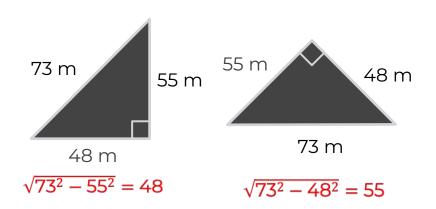
Prove that ABM and CDM are congruent.

State any conditions of congruency used.

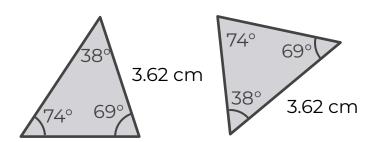
Answers

 Prove that the triangles are congruent. State any conditions of congruency used.

Show that the triangles are congruent.
State the condition of congruency used.



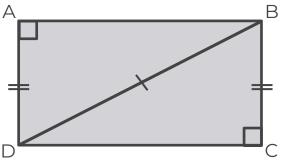
The triangles are congruent. (SSS or RHS or SAS)



Angles in a triangle sum to 180° The triangles are congruent. (ASA)

3. ABCD is a rectangle.

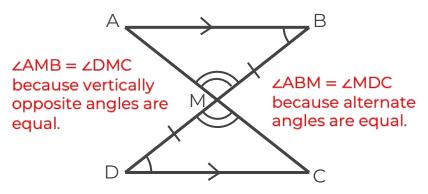
BD is the diagonal of the rectangle.



Prove that ABD and BCD are

congruent triangles.

BD is a shared side. AD = BC because opposite sides in a rectangle are equal in length. ABD and BCD are congruent (RHS) 4. Line segments AB and CD are parallel.M is the midpoint of BD.



Prove that ABM and CDM are congruent.

State any conditions of congruency used.

