

PERIOD 1

MATHEMATICS

CHAPTER NUMBER :~ 7 CHAPTER NAME :~ TRIANGLES

CHANGING YOUR TOMORROW

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LEARNING OUTCOME:~

1.Sudents will no the difference between similar and congruent figures.2. Students will learn the criteria for congruence(SAS) in this module.





SIMILAR FIGURES:

Same shape, different size

CONGRUENT FIGURES

Same shape, Same size







AXIOM 7.1

SAS congruence rule

Two triangles are congruent if two sides and the included angle of one triangle are equal to the two sides and included angle of another triangle.





Given below are measurements of some parts of two triangles. Examine whether the two triangles are congruent or not, by using SAS congruence rule. If the triangles are congruent, write them in symbolic form.

∆ABC

ΔDEF





In $\triangle ABC$ and $\triangle FED$

- AB = FE (Both are 7 cm)
- $\angle B = \angle E$ (Both are 50°)
- BC = ED (Both are 5 cm)
- $\therefore \Delta ABC \cong \Delta FED$ (SAS Congruence Rule)



In Fig AB = AC and AD is the bisector of \angle BAC. (i) State three pairs of equal parts in triangles ADB and ADC.



In $\triangle ADB$ and $\triangle ADC$, AB = AC (Given) $\angle BAD = \angle CAD$ (AD is bisector of $\angle BAC$ common) AD = AD (Common)



HOMEWORK ASSIGNMENT

Exercise 7.1 Qno 1,2,3,4



1. IN fig, if ABCD is a quadrilateral in which AD= CB, AB=CD, and D=B, then CAB is equal to





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