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Class 10 Mathematics Chapter 7 Congruence of Triangles

15) If you have to use SAS criterion, then you need to show:
 (i) $AB = PQ$
 (ii) $\angle B = \angle Q$
 (iii) $BT = QT$

16) If it is given that $\angle T = \angle R$ and you are to use SAS criterion, you need to show:
 (i) $RT = QT$
 (ii) $TR = QR$

17) If it is given that $\angle T = \angle R$ and you are to use ASA criterion, you need to show:
 (i) $T = R$
 (ii) $T = R$

Solution:

15) To use SAS congruence criterion we need to show that the two corresponding sides and angle are equal in the two triangles.

Given:
 (i) $AB = PQ$
 (ii) $\angle B = \angle Q$
 (iii) $BT = QT$

16) To use SAS congruence criterion it is given that $\angle T = \angle R$, we need to show that the two corresponding sides between which these angles are included are equal in the two triangles.

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Maths Class 10

Chapter 7: Congruence of Triangles

15) SAS Criterion:
 To use SAS criterion, we need to show that the two corresponding sides and angle are equal in the two triangles.

16) SAS Criterion:
 To use SAS criterion, we need to show that the two corresponding sides and angle are equal in the two triangles.

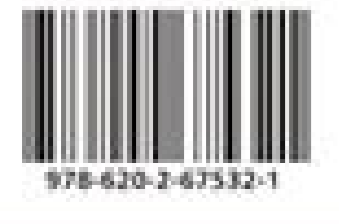
17) ASA Criterion:
 To use ASA criterion, we need to show that the two corresponding angles and the included side are equal in the two triangles.

This book is a simplified textbook in advanced mathematics for engineering intended for a semester-long course in advanced engineering mathematics. This book was developed for students to have a material that will guide them in learning the concepts of higher engineering mathematics. The author wishes that students can learn fully the necessary knowledge, skills and attitudes that are needed as preparation in their chosen fields of engineering studies and other allied sciences. The author respectfully accepts any suggestions, recommendations or any correction of any kinds of errors arising in this material. This will guide him for future improvements of this material.

Harold Jan R. Terano

HAROLD JAN R. TERANO is a full-fledged professor with the academic rank of Professor I and the Director of Center for Research and Development at Camarines Sur Polytechnic Colleges, Philippines. He is a registered electronics engineer and a professional teacher in mathematics. He authored several books and published research articles in journals.

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