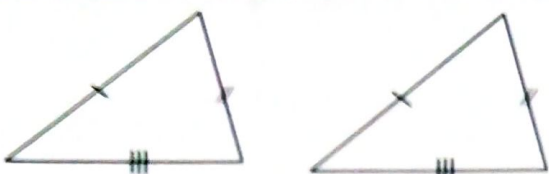
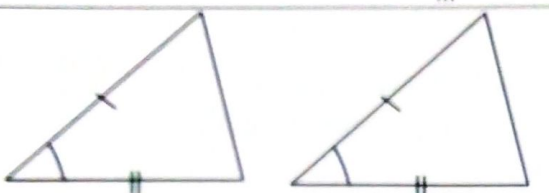
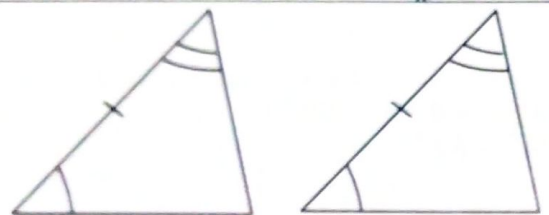
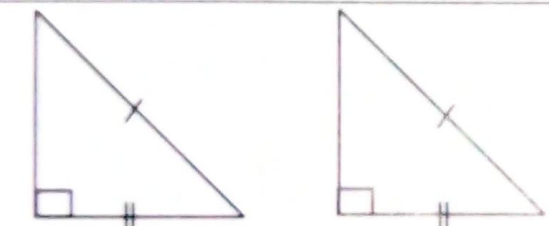


§ 7.12 CONGRUENT TRIANGLES

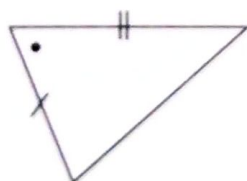
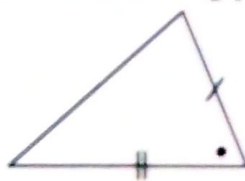
✦ Two triangles are congruent if one of these four conditions is true:

1)		<ul style="list-style-type: none"> Three sides of one triangle equal in length to three sides of the other triangle Notation: SSS
2)		<ul style="list-style-type: none"> Two sides of one triangle equal to two sides of the other AND The included angles equal in size Notation: SAS
3)		<ul style="list-style-type: none"> Two angles of one triangle equal in size to two angles of the other triangle AND One side of one triangle equal in length to the corresponding side of the other Notation: SAA
4)		<ul style="list-style-type: none"> Both triangles are right-angled AND Hypotenuses are equal AND One pair of corresponding sides is equal Notation: RHS

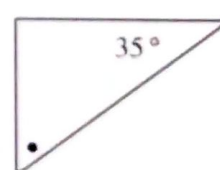
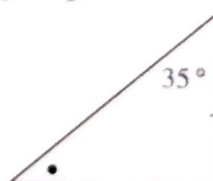
Exercise 7.12

1) Are the following pairs of triangles congruent? If yes, give a reason for your answer.

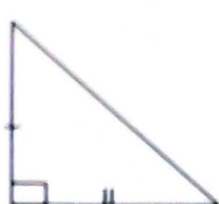
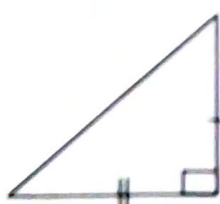
a)



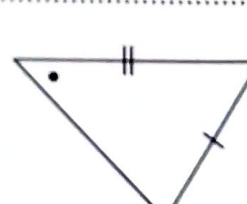
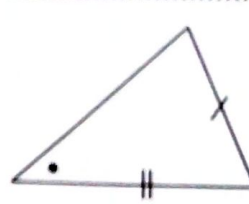
b)



c)



d)



2) Is AAA a condition for congruency?