MATHS

BOOKS - SUBHASH PUBLICATION

CONGRUENCE OF TRAINGLES

Example

1. Complete the folloiwng statemetns: Two line segments are congruent if_____.

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2. Complete the folloiwng statemetns: Among two congruent angles, one has a measure of 70^o the measure of the other angle is _____.

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3. Complete the folloiwng statemetns: When we write $\lfloor A = \lfloor B$ we actually mean_____.

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4. Give any two real-life examples for congruent shapes.

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5. If $\triangle ABC \cong \triangle FED$ under the correspondence ABC $\leftrightarrow$ FED, write all the corresponding congruent parts of the triangle.

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6. if $\triangle DEF \cong \triangle BCA$ write the parts of BCA that correspond to : $\lfloor E \leftrightarrow \lfloor C$

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7. if $\triangle DEF \cong \triangle BCA$ write the parts of BCA that correspond to : $\lfloor EF$

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8. if $\triangle DEF \cong \triangle BCA$ write the parts of BCA that correspond to : $\lfloor F$

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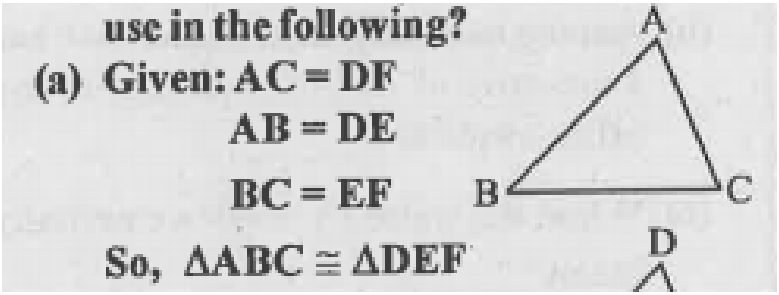
9. Which congruence criterion do you use in the following: Given



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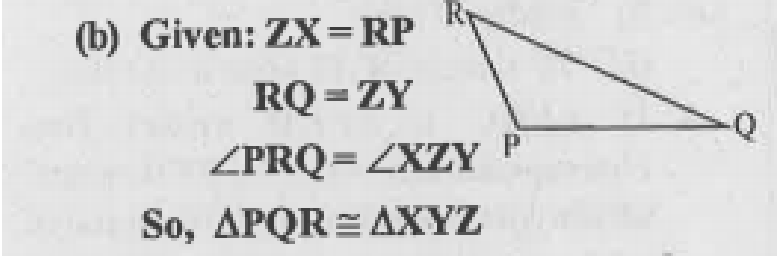
10. Which congruence criterion do you use in the following: Given



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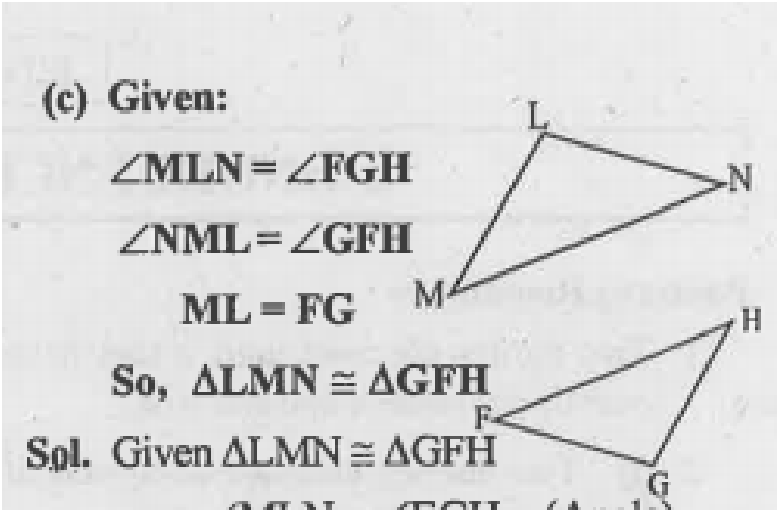
11. Which congruence criterion do you use in the following: Given



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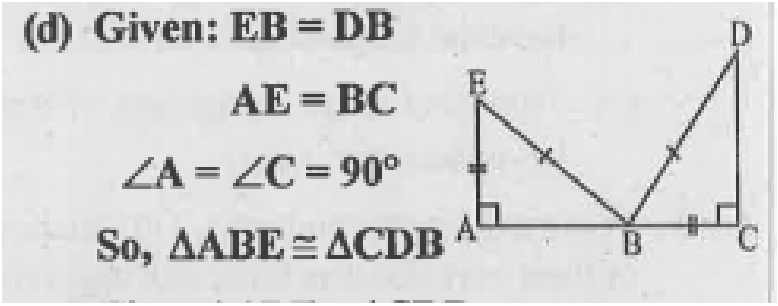
12. Which congruence criterion do you use in the following: Given



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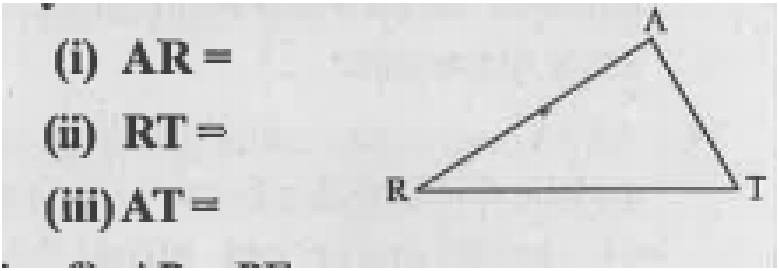
13. You want to show that $\triangle ART \cong \triangle PEN$,: If you have to use SSS criterion,

then you need to show



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14. If it is given that $\angle T = \angle N$ and you are to use SAS criterion, you need to have : RT=

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15. If it is given that $\angle T = \angle N$ and you are to use SAS criterion, you need to have : PN=

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16. If it is given that AT=PN and you are to use ASA criterion, you need to have : ?

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17. If it is given that AT=PN and you are to use ASA criterion, you need to have : ?

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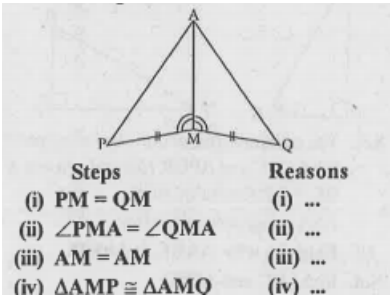
18. You have to show that $\triangle AMP \; narr = \triangle AMQ$. In the following proof, supply the missing reasons.



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19. In $\triangle ABC$, $\angle A = 30^o$, $\angle B = 40^o$ and $\angle C = 110^o$. In $\triangle PQR$, $\angle P = 30^o$, $\angle Q = 40^o$ and $\angle R = 110^o$. A student says that $\triangle ABC \cong \triangle PQR$ by AAA congruence. Is he justified? Why or why not?

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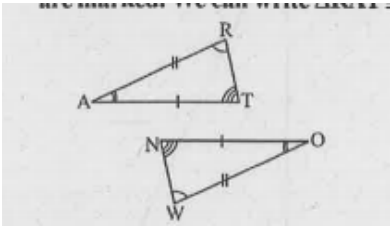
20. In the figure, the two triangles are congruent. The corresponding parts are

marked. We can write $trian \geq lRAT\ narr =$

?



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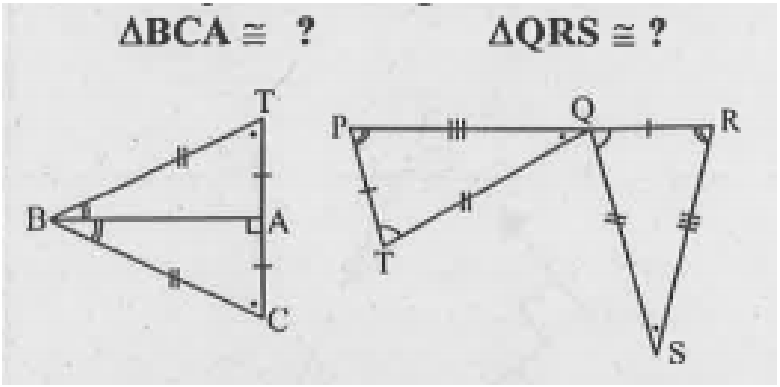
21. Complete the congruence statement:



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22. In a squared sheet, draw two triangles fo equal areas such that: The triangles are congruent.

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23. In a squared sheet, draw two triangles fo equal areas such that: The triangles are congruent.

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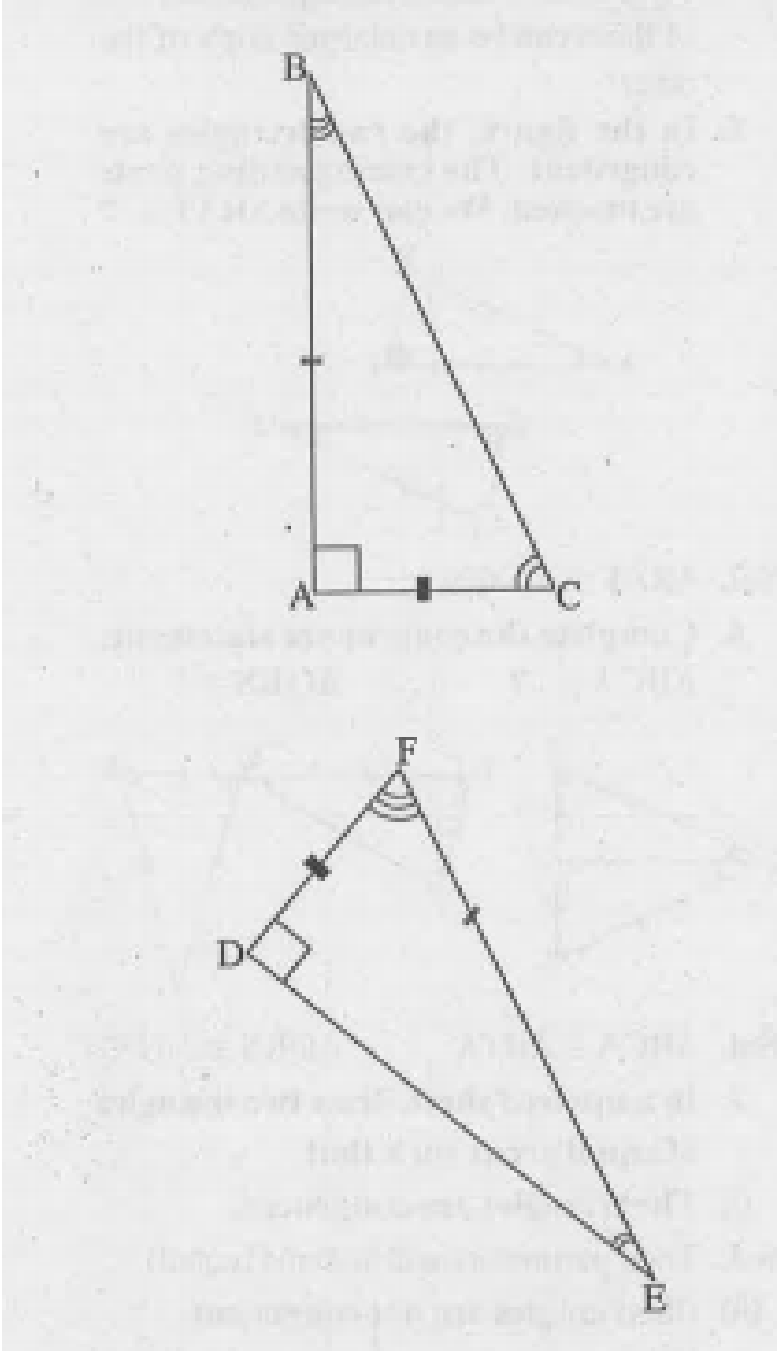
24. Draw a rough sketch of two traingles such that they have five paris of congruent parts

but still the triangles are not congruent.



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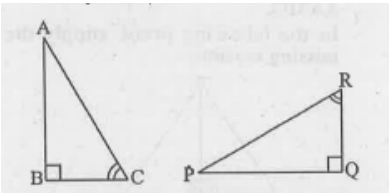
25. If $\triangle ABC$ and $\triangle PQR$ are to be congruent, name one additional pair of corresponding parts. What criterion did you use:



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