

For each problem, complete all information and decide if the triangles are similar.

*****Reasons for non-similar triangles:

- ⊙ Did not have 2 pairs of congruent angles
- ⊙ Included angles are not congruent
- ⊙ 2 pairs of required sides are not proportional
- ⊙ 3 pairs of required sides are not proportional

11. Show any angle relationships:
Show any side relationships:
Show work !!!

16. Show any angle relationships:
Show any side relationships:
Show work !!!

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

12. Show any angle relationships:
Show any side relationships:
Show work !!!

17. Show any angle relationships:
Show any side relationships:
Show work !!!

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

13. Show any angle relationships:
Show any side relationships:
Show work !!!

18. Show any angle relationships:
Show any side relationships:
Show work !!!

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

14. Show any angle relationships:
Show any side relationships:
Show work !!!

19. Show any angle relationships:
Show any side relationships:
Show work !!!

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

15. Show any angle relationships:
Show any side relationships:
Show work !!!

20. Show any angle relationships:
Show any side relationships:
Show work !!!

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason:

Are the triangles similar?? Yes/no _____
If yes, state theorem used. _____
 $\triangle ABC \sim \triangle$ _____
If no, give reason: