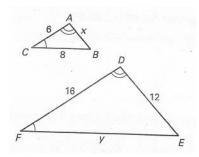
Use the diagram to complete the statement.

$$2. \frac{AB}{EF} = \frac{CA}{EF}$$

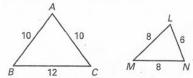
4.
$$\frac{12}{12} = \frac{8}{12}$$

5.
$$x =$$

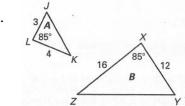


Determine whether the triangles are similar and justify your answer (with AA, SSS, SAS or why they are not). If they are similar, write a similarity statement.

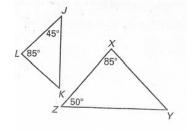
7.



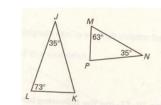
8



9.



10.

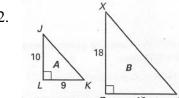


11.

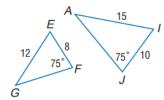


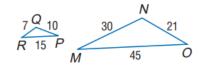
M 5 N 4.5

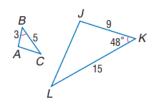
12.



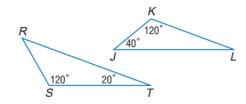
13.



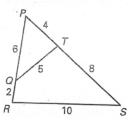




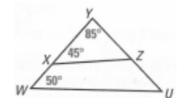
16.

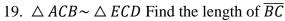


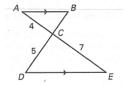
17.

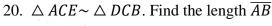


18.











Sketch the triangle using the given description. Explain whether the two triangles can be similar.

21. The side lengths \triangle *ABC* are 8in, 10in and 14in. The side lengths \triangle *DEF* are 16in, 20in and 26in. 22. In \triangle *ABC*, *AB* = 15, *BC* = 24 and $m \angle B = 38^{\circ}$ In \triangle *DEF*, *DE* = 5, *EF* = 8 and $m \angle E = 38^{\circ}$