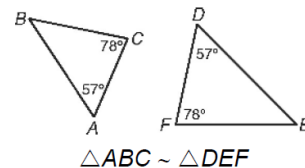


Name: _____ Date: _____

Ways to Prove Triangles are Similar

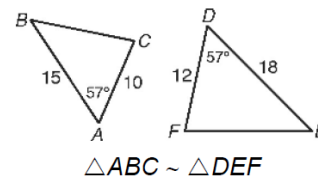
AA~ Postulate:

If two angles of one triangle are _____ to two angles of another, then the triangles are similar.



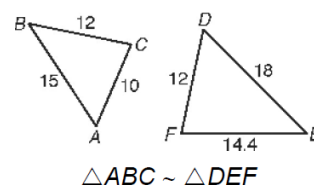
SAS~ Postulate:

If the lengths of two sides are _____ and the _____ angle is _____, then the triangles are similar.



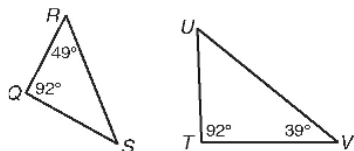
SSS~ Postulate:

If _____ sides of one triangle are _____ to corresponding _____ of another triangle, then the triangles are similar.

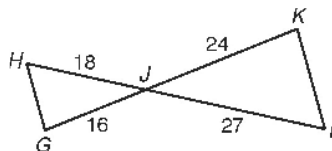


Practice: Explain why the triangles are similar (SSS~, SAS~, or AA~) and write a similarity statement.

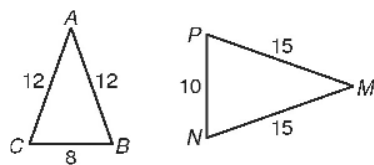
1) $\triangle RQS \sim$ _____ by _____



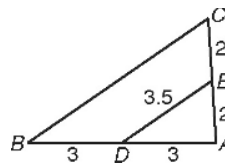
2) $\triangle HGJ \sim$ _____ by _____



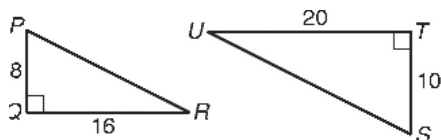
3) $\triangle ABC \sim$ _____ by _____



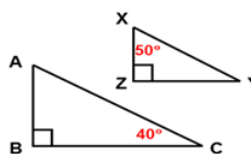
4) $\triangle ADE \sim$ _____ by _____



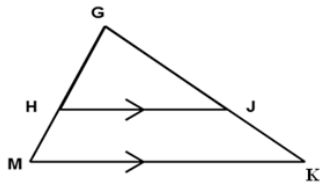
5) $\triangle QPR \sim$ _____ by _____



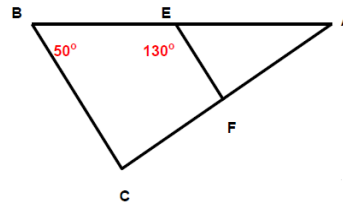
6) $\triangle ABC \sim$ _____ by _____



7) $\triangle GHJ \sim$ _____ by _____

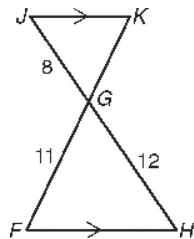


8) $\triangle AEF \sim$ _____ by _____

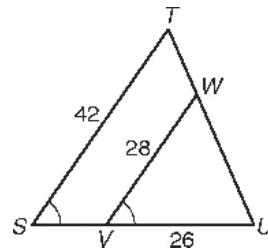


Explain why the triangles are similar (SSS~, SAS~, or AA~) and find each length.

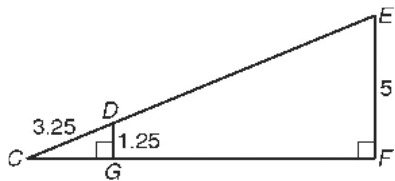
9) Similar by _____ and $GK =$ _____



10) Similar by _____ and $SU =$ _____



11) Similar by _____ and $DE =$ _____



12) Similar by _____ and $RQ =$ _____

