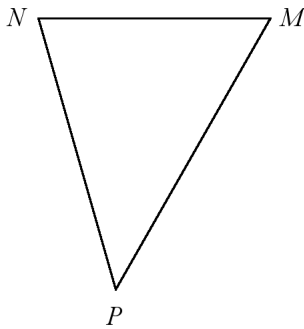


**Triangle Pre-Assessment**

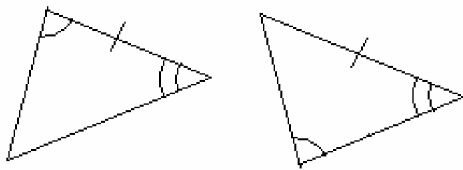
\_\_\_\_\_ 1. Name the angle included by the sides  $\overline{PN}$  and  $\overline{NM}$ .



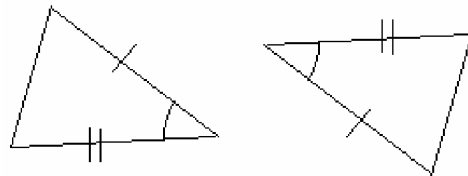
- a.  $\angle N$                       b.  $\angle P$                       c.  $\angle M$                       d. none of these

\_\_\_\_\_ 2. Which pair of triangles is congruent by ASA?

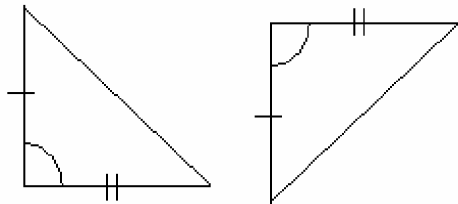
a.



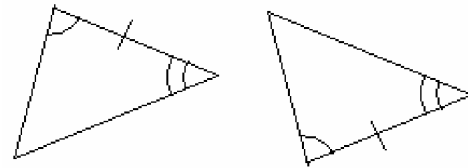
c.



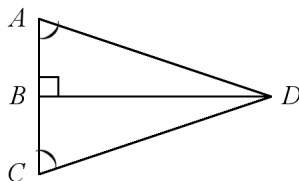
b.



d.



\_\_\_\_\_ 3. Name the theorem or postulate that lets you immediately conclude  $\triangle ABD \cong \triangle CBD$ .

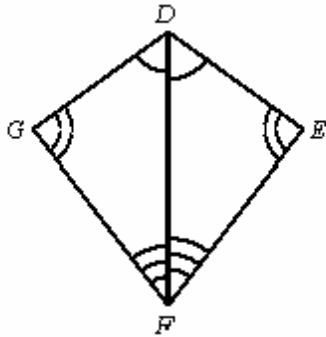


- a. AAS                      b. SAS                      c. ASA                      d. none of these

Name: \_\_\_\_\_

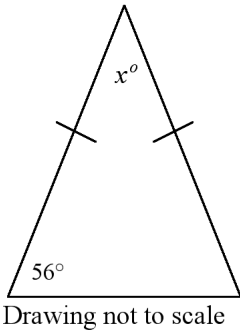
ID: A

\_\_\_\_\_ 4. From the information in the diagram, can you prove  $\triangle FDG \cong \triangle FDE$ ? Explain.



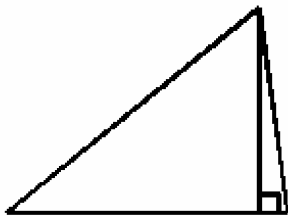
- a. yes, by ASA
- b. yes, by AAA
- c. yes, by SAS
- d. no

\_\_\_\_\_ 5. What is the value of  $x$ ?



- a.  $68^\circ$
- b.  $62^\circ$
- c.  $112^\circ$
- d.  $124^\circ$

\_\_\_\_\_ 6. What is the name of the segment inside the large triangle?

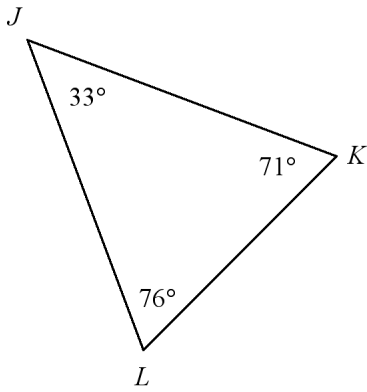


- a. altitude
- b. perpendicular bisector
- c. angle bisector
- d. median

Name: \_\_\_\_\_

ID: A

\_\_\_\_\_ 7. List the sides in order from shortest to longest. The diagram is not to scale.



- a.  $\overline{JK}, \overline{LJ}, \overline{LK}$       b.  $\overline{LK}, \overline{LJ}, \overline{JK}$       c.  $\overline{JK}, \overline{LK}, \overline{LJ}$       d.  $\overline{LK}, \overline{JK}, \overline{LJ}$
8. Can these three segments form the sides of a triangle? Explain.

