**Acc Geometry Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Ext Angle Thm & Side-Angle Inq (4.2 & 5.2) Date\_\_\_\_\_\_\_\_\_**

**Determine the relationship between the measures of the given angles.**

1. $∠MJY\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_∠JYM$

2. $∠AKJ\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_∠JAK$

3. $∠JSY\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_∠JYS$

**Determine the relationship between the length of the given sides.**

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4. $\overbar{SR}\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\overbar{ZS}$

5. $\overbar{ZY}\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\overbar{RZ}$

6. $\overbar{TY}\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\overbar{ZT}$

**List the sides of Triangle PQR in order from shortest to longest for the given angle measures.**

7. 

**Arrange the unknown measures in order from greatest to least.**

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8.

9. Hector and Grace each labeled $∆QRS$. Who is correct? Explain.



**Solve for x or find the indicate angle measure.**



17)

16)

15)

14)

18. Explain why $∆PQS$ is isosceles.