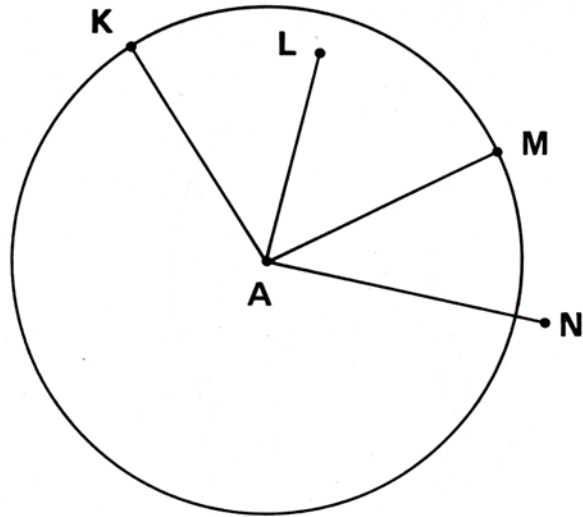


Comparing Segments



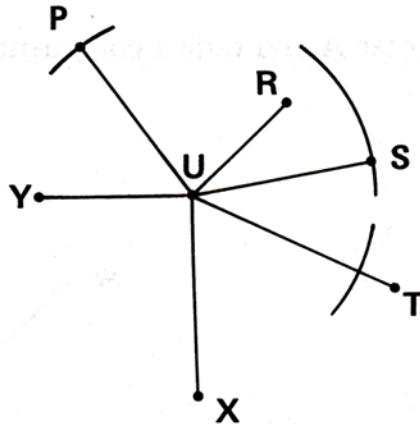
- \overline{AM} is congruent to _____ .

\overline{AM} is longer than _____ .

\overline{AM} is shorter than _____ .

2. The arcs with center U and radii congruent to \overline{US} show us that:

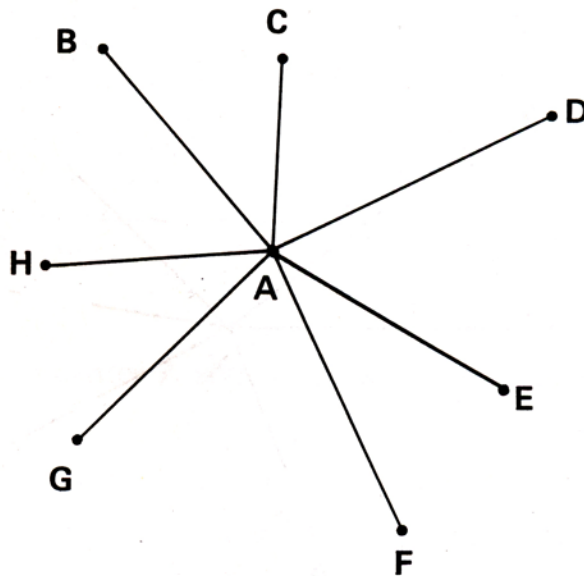
- \overline{US} is congruent to _____ .
- \overline{US} is longer than _____ .
- \overline{US} is shorter than _____ .



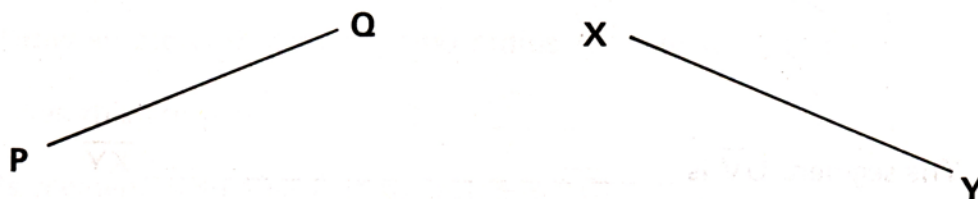
- Is \overline{UY} longer than \overline{US} ? _____

(Draw an arc with center U to see.)
- Is \overline{UX} congruent to \overline{US} ? _____

1. Draw a small arc with center A and radius \overline{AB} which intersects the ray through each segment.



2. Which segments are congruent to \overline{AB} ? _____
 Which segments are shorter than \overline{AB} ? _____
 Which segments are longer than \overline{AB} ? _____
3. Draw an arc with center X and radius congruent to \overline{PQ} which intersects \overline{XY} .



4. \overline{PQ} is _____ \overline{XY} .
 (a) shorter than
 (b) congruent to
 (c) longer than