1. Find $m\angle PTQ$

2. Find $m\angle QTR$

3. a. Find $m\angle FAN$, if $m\widehat{FUN} = 234^\circ$ and $m\widehat{FN} = 126^\circ$.

   b. Find $m\angle FAN$, if $m\widehat{FUN} = 234^\circ$.

4. a. Find $m\angle FAN$, if $m\widehat{FN} = 86^\circ$ and $m\widehat{GH} = 40^\circ$.

   b. Find $m\widehat{FN}$, if $m\angle FAN = 23^\circ$ and $m\widehat{GH} = 40^\circ$. 
5. Find the measure of each angle, given
\( \overline{ST} = 90^\circ \) and \( \overline{SP} = 70^\circ \)

6. Find the volume of the cone.

7. Find the volume of the composite function.

8. Given the base and height of each figure, find the volume.
   Cone: 
   Base = 68 \text{ in}^2 / \text{Height} = 4 \text{ in.} 
   Cylinder: 
   Base = 35 \text{ cm}^2 / \text{Height} = 9 \text{ cm.}
9. Find the volume of a cylinder with a base area of \( 36\pi \text{ in}^2 \) and a height equal to twice the radius.

10. Find the volume of a sphere, whose surface area is \( 100\pi \text{ in}^2 \).

11. Find the volume of each cylinder. Are the volumes the same? Why?

12. The wheel on a toy car rotates at an angle of \( \frac{1}{3}\pi \) radians in 1 second. How many revolutions does the wheel make in half a minute?
13. A wheelchair ramp has a slope of \( \frac{3}{7} \). What angle does the ramp make with the ground?

14. Write \( \sin(50^\circ) \) in terms of cosine.

15. Find two angles represented in the equation \( \cos(6x - 20) = \sin(70 - 2x) \).

16. Find sine, cosine, and tangent for \( \angle B \) rounding answers to nearest hundredth.
17. Find the length of $DE$.

18. A contractor is building a wheelchair ramp for a doorway that is 1.2 feet above the ground. The ramp will make an angle of 4.8° above the ground. To the nearest hundredth of a foot, what is the length of the ramp?
19. An ice climber stands at the edge of a crevasse that is 115 feet wide. The angle of depression from the edge where she stands to the bottom of the opposite side is 52°. How deep is the crevasse at this point? Round to the nearest foot.

20. Find the measure of arc $\overset{\frown}{DC}$ and the measure of arc $\overset{\frown}{DEFA}$. 
21. Find the length of arc $AC$

22. Find the area of the sector. Give answer in terms of $\pi$ and round to the nearest hundredth.