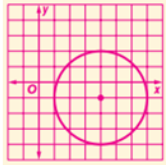


Monday

1. Identify the center and radius of the circle:  $x^2 + (y + 2)^2 = 49$
2. Identify the center and radius of the circle:  $x^2 + y^2 = 196$
3. Identify the center and radius of the circle:  $(x - 6)^2 + (y + 5)^2 = 7$

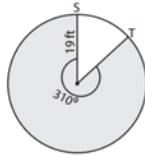
Tuesday

4. Write the equation of a circle, in standard form, that has a center  $(-4,1)$  and passes through the point  $(1,13)$
5. Write the equation of a circle, in standard form, with endpoints:  $(1,-2)$  and  $(1,6)$
6. Write the equation, in standard form, for the circle shown:

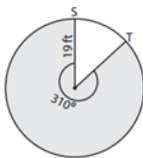


Wednesday

What is the arc length of the shaded sector?



What is the area of the shaded sector?



Thursday

7. The beam from a lighthouse reaches a distance of 8 kilometers and spreads at an angle of  $35^\circ$ . Calculate the length of the arc traveled by the beam.
8. A curved part on an anchor is in the shape of an arc of a circle, which has a radius of 1.2 meters and a degree measure of  $85^\circ$ . Calculate the length of this arc.

Friday

9. A pendulum is 45 centimeters long. When the pendulum swings it travels along the arc of a circle and covers a distance of 27.5 centimeters. Calculate the size of the angle through which the pendulum travels.
10. A windshield wiper is 50 centimeters long. In one sweep it turns through an angle of  $115^\circ$ . Calculate the distance it covers in one sweep.