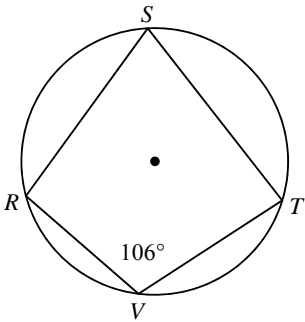


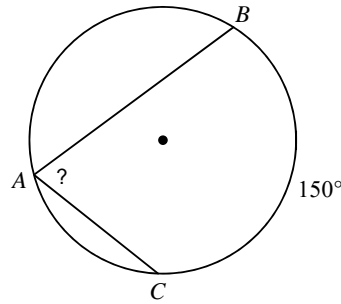
Review Unit 11

Find the measure of the arc or angle indicated.

1) Find $m\widehat{RST}$

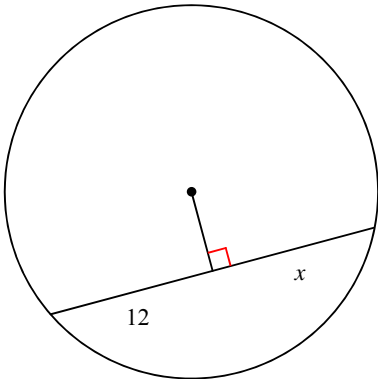


2)

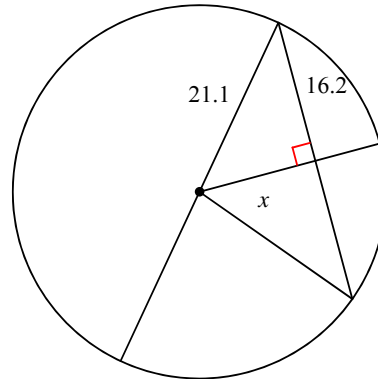


Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

3)

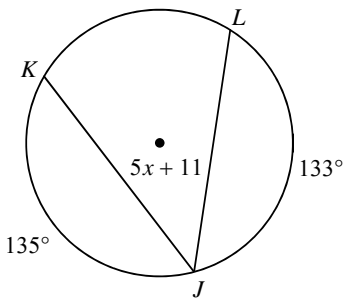


4)

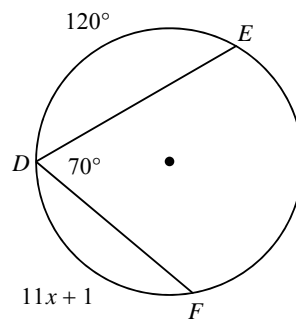


Solve for x .

5)

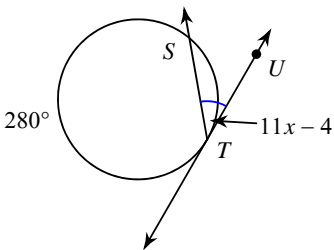


6)

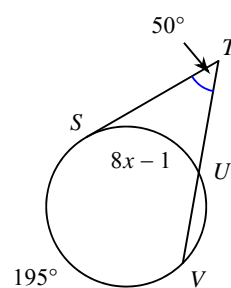


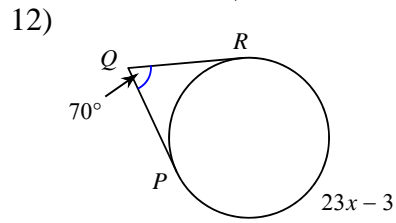
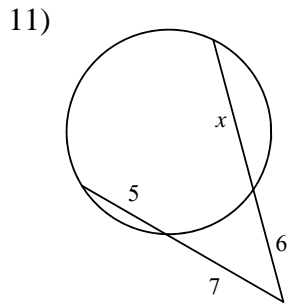
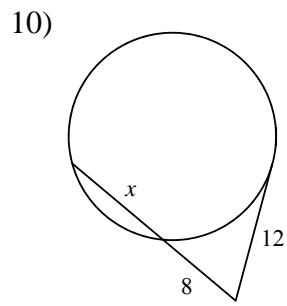
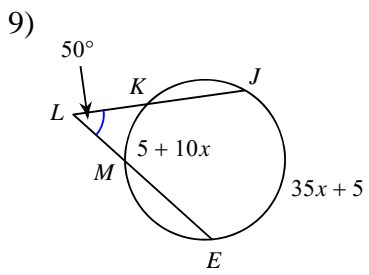
Solve for x . Assume that lines which appear tangent are tangent.

7)

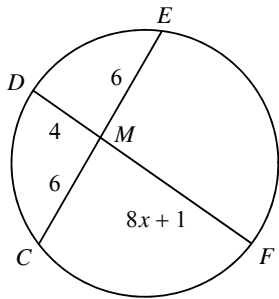


8)



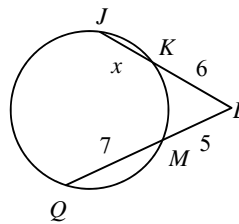


13) Find DF

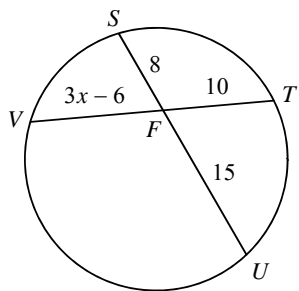


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

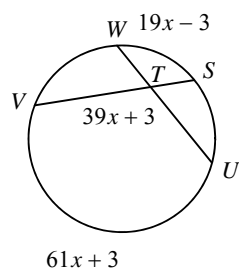
14) Find JL



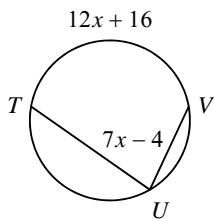
15) Find FV



16) Find $m\angle UTV$

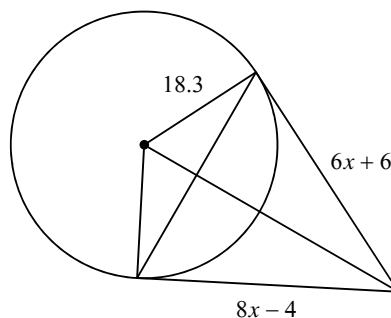


17) Find $m\angle VUT$



Solve for x . Assume that lines which appear to be tangent are tangent.

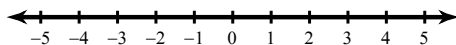
18)



ALGEBRA REVIEW!!!

Solve each inequality and graph its solution.

19) $4 - 4p \leq 4(p - 1)$



Solve each equation.

20) $-2(4 + 2x) = -8 + x$

Factor each completely.

21) $10n^2 + 26n + 12$

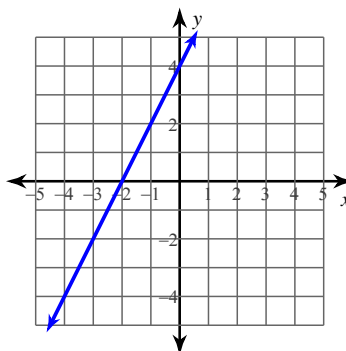
22) $16p^2 - 9$

Solve each system by substitution.

23) $y = -6x - 16$
 $-4x + 3y = 18$

Write the slope-intercept form of the equation of each line.

24)



11 Review Application and Extension

1. A chord of 30cm is 7cm from the center of a circle. **Calculate the area** of the circle to the nearest tenth. (+4)

2. Sully is riding in an airplane at an altitude of about 5.5 mi above the Earth. **How far is Sully from the furthest point on Earth that he can see?** Remember, the Earth's diameter is approximately 7920 miles. (+4)

3. The diameter of a circle is 50cm and a chord that is parallel to that diameter is 32cm. To the nearest tenth, **what is the distance** to the chord from the center of the circle? (+4)

4. Brust is chill-axin' up in a hot-air balloon. He estimates the viewing angle of the Earth formed by two tangents of 120° .
 - a. Draw a picture to represent the scenario here (+2) →

 - b. Find the **measure of the arc** of Earth's surface viewable from the balloon. (+3)

 - c. If the radius of the Earth is about 3960 miles, calculate the **distance from the earth's surface to the balloon to the nearest mile.**(+3)