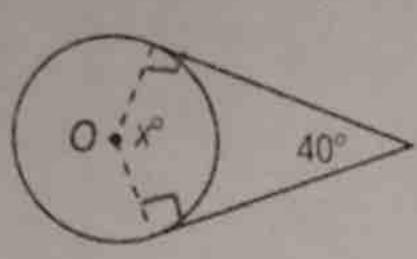
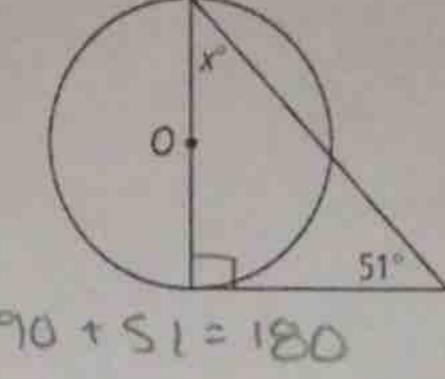
Homework 8.1: Tangents of Circles

Math 3

Name:

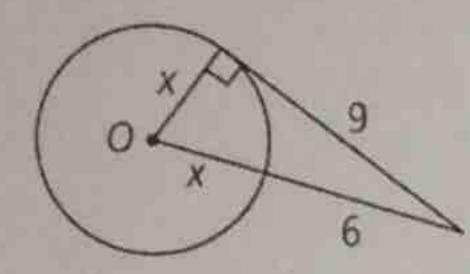
Directions: Assume that lines that appear to be tangent are tangent. O is the center of each circle. What is the value of x?



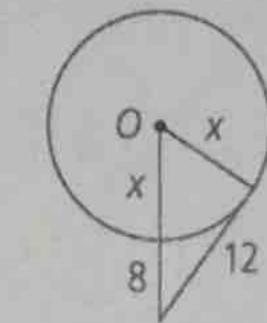


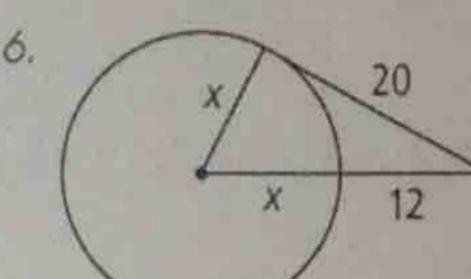
3.

Directions: In each circle, what is the value of x to the nearest tenth?

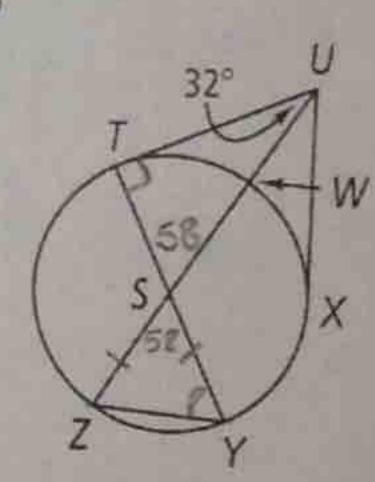


5.



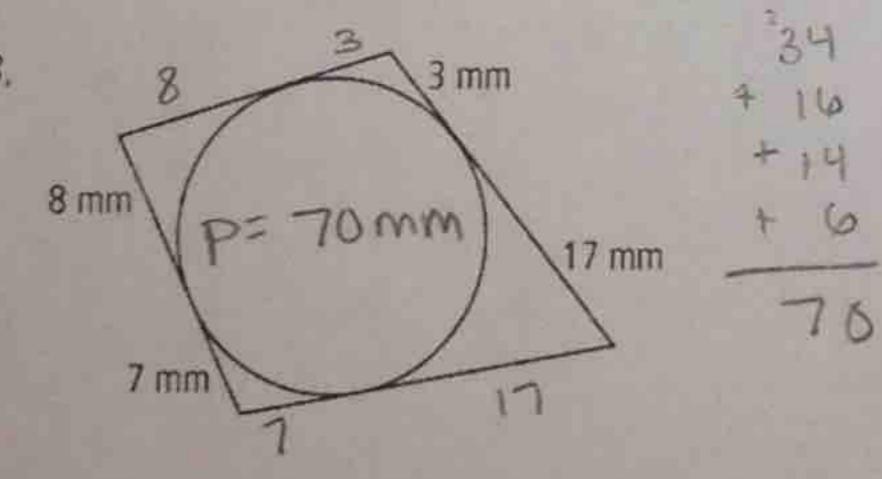


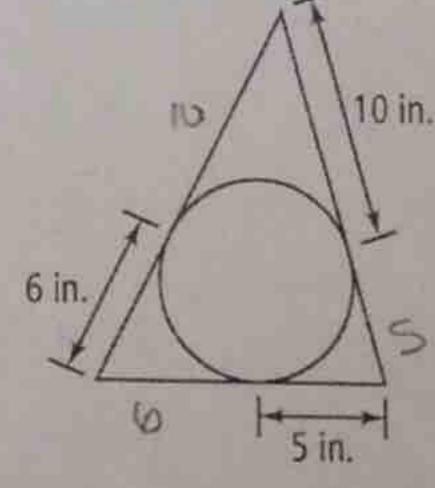
7. TY and ZW are diameters of OS. TU and UX are tangents of OS. What is m_ZSYZ?



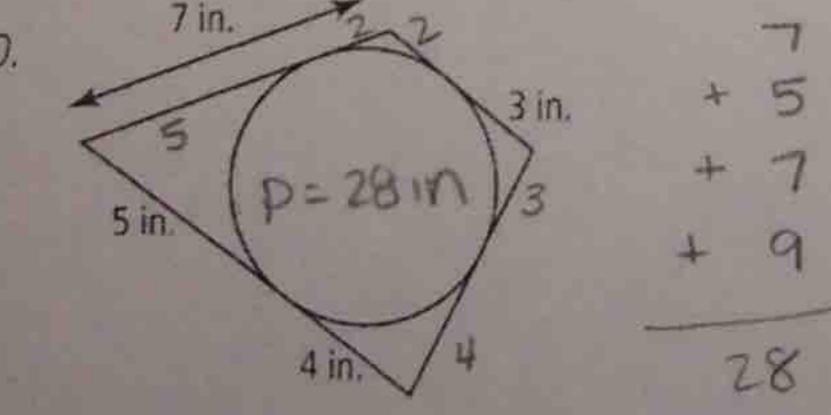
Directions: Each polygon circumscribes a circle. What is the perimeter of each polygon?

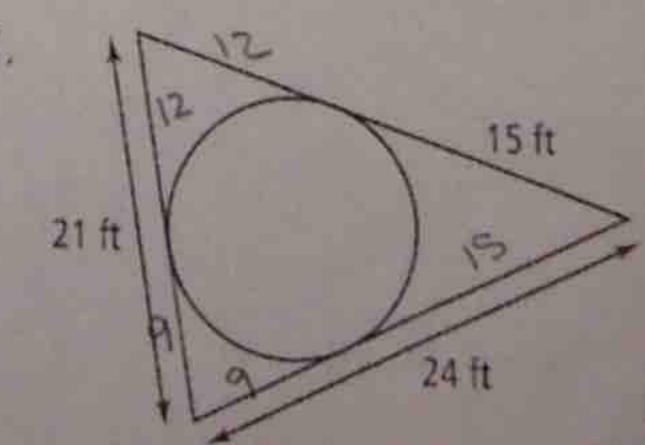
8.





10.





Homework 8.2: Chords & Arcs of Circles

Name:

Math 3

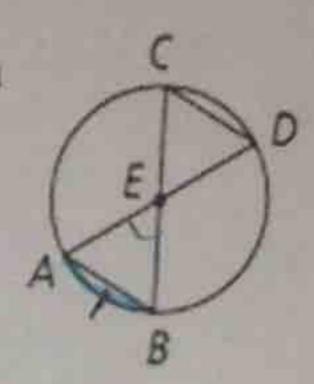
1. The circles at the right are congruent. Which conclusion can you draw?

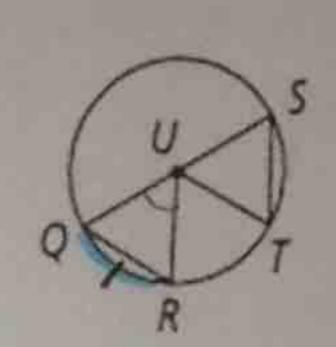
$$\bigcirc CD \cong \overline{ST}$$

$$\bigcirc$$
 $\angle AEB \cong \angle QUR$

(B)
$$\angle CED \cong \angle SUT$$
 (D) $\widehat{BD} \cong \widehat{RT}$

$$\bigcirc \widehat{BD} \cong \widehat{RT}$$



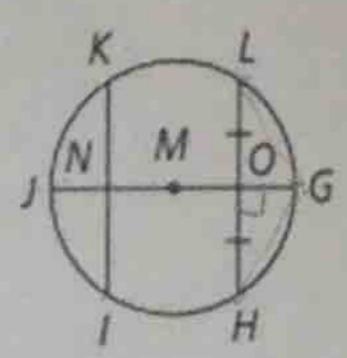


2. \overline{IG} is the diameter of $\bigcirc M$. Which conclusion cannot be drawn from the diagram?

$$\bigcirc$$
 $\overline{KN} \cong \overline{NI}$

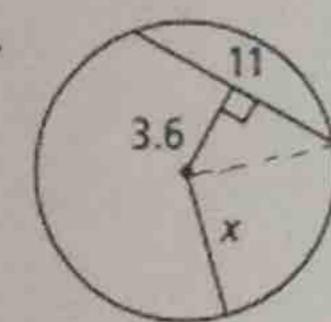
$$\bigcirc \widehat{LG} \cong \widehat{GH}$$

$$\bigcirc$$
 $\overline{GH} \cong \overline{GL}$



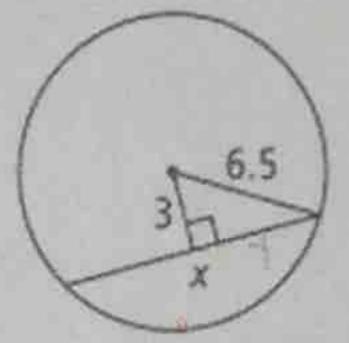
For Exercises 3 and 4, what is the value of x to the nearest tenth?

3.



5.5 2 + 3,6 = X

4.



y2 + 3 = 6,5 2 y2 = 33,25

A 4.2

10.4

(E) 3.6

H 11.5

6.6

D 11.6

5.8

① 14.3

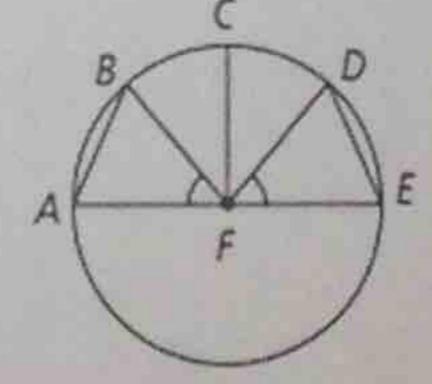
5. If $\angle AFB \cong \angle DFE$, what must be true?

$$\widehat{AB} \cong \widehat{DE}$$

$$\bigcirc$$
 $\overline{CF} \perp \overline{AE}$

(B)
$$\widehat{BC} \cong \widehat{DE}$$

$$\bigcirc$$
 $\angle BFC \cong \angle DFC$



6. A student draws [⊙]X with a diameter of 12 cm. Inside the circle she inscribes equilateral ∆ABC so that \overline{AB} , BC, and CA are all chords of the circle. The diameter of ${}^{\bigcirc}{}$ X bisects AB. The section of the diameter from the center of the circle to where it bisects AB is 3 cm. To the nearest whole number, what is the perimeter of the equilateral triangle inscribed in OX?

