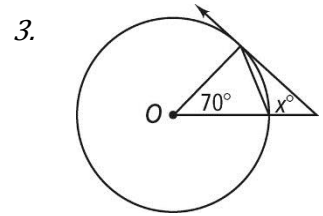
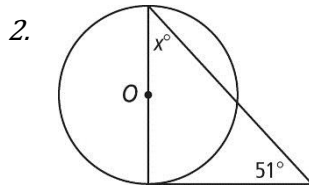
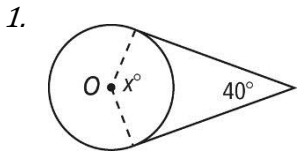


Math 3
Unit 6 Day 7 CW

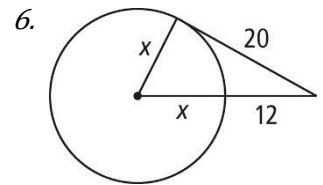
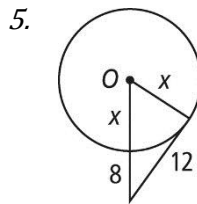
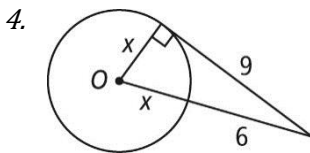
Name: _____

Date: _____

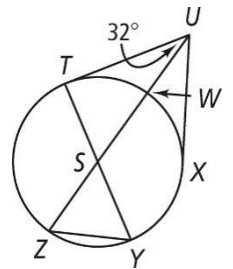
Directions: Assume that lines that appear to be tangent are tangent. O is the center of each circle. What is the value of x ?



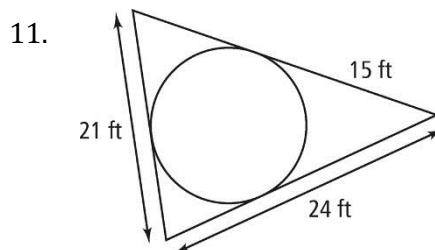
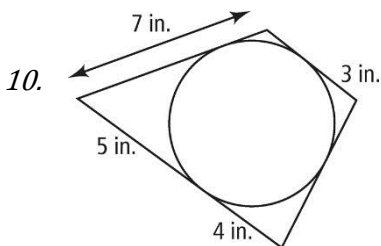
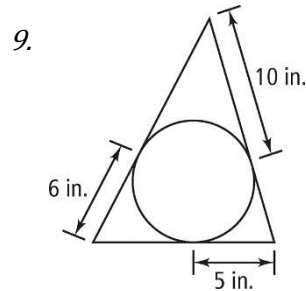
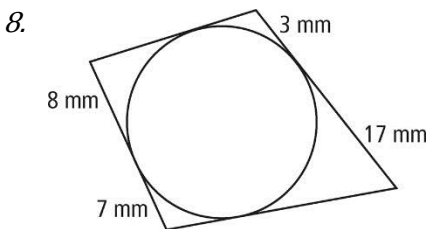
Directions: In each circle, what is the value of x to the nearest tenth?



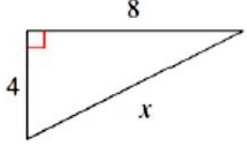
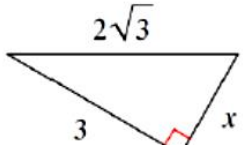
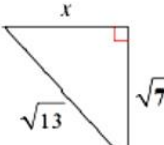
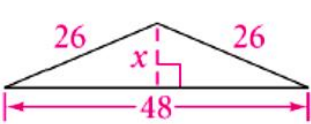
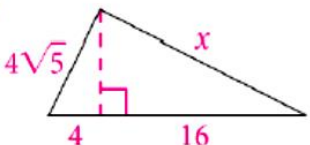
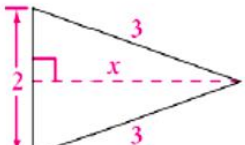
7. \overline{TY} and \overline{ZW} are diameters of $\odot S$. \overline{TU} and \overline{UX} are tangents of $\odot S$. What is $m\angle SYZ$?



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



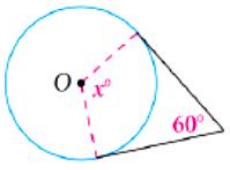
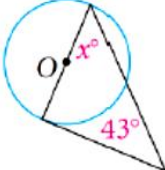
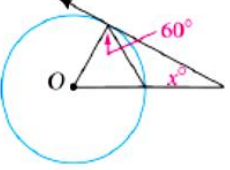
I. Find the missing side length x . Keep answers in simplified radical form. Must show work!!

<p>1.) </p>	<p>2.) </p>	<p>3.) </p>
<p>4.) </p>	<p>5.) </p>	<p>6.) </p>

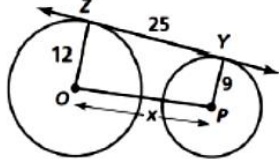
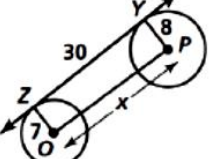
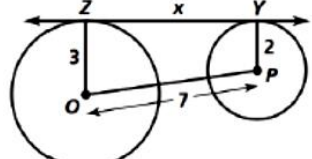
II. State if the three side lengths form an acute, obtuse, or right triangle. Must show work!!

7.) 10, 12, 15	8.) 5, 12, 13	9.) 9, $2\sqrt{10}$, 12
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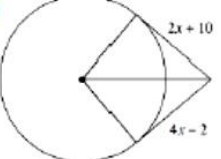
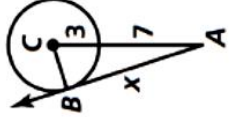
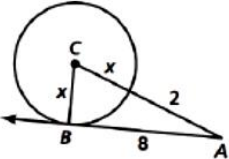
III. Find the value of angle x . Must show work!

<p>10.) </p>	<p>11.) </p>	<p>12.) </p>
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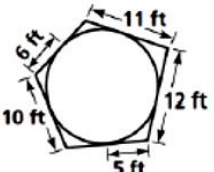
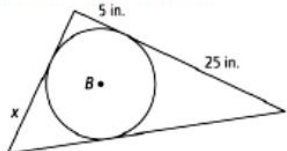
IV. In each diagram, \overline{ZY} is tangent to circles O and P. Find the value of x . Must show work!

<p>13.) </p>	<p>14.) </p>	<p>15.) </p>
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V. In each diagram, \overline{AB} is tangent to circle C. Find the value of x . Must show work!

<p>16.) </p>	<p>17.) </p>	<p>18.) </p>
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VI. In each diagram, a polygon is circumscribes a circle. Find what is asked.

<p>19.) What is the perimeter of the polygon?</p> 	<p>20.) Circle B is inscribed in a triangle, which has a perimeter of 76 in. What is the value of x?</p> 
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