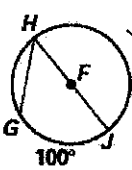
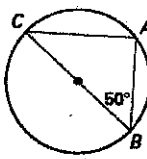
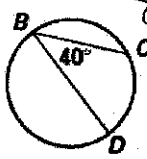
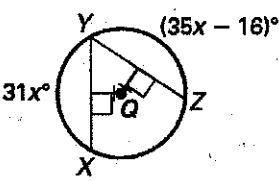
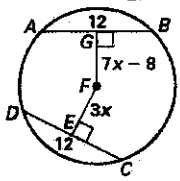
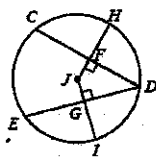
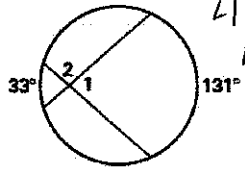
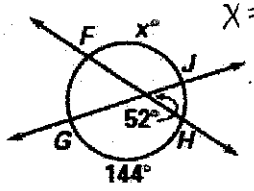
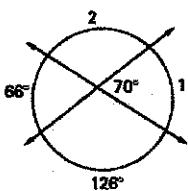
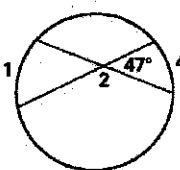


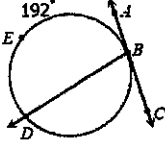
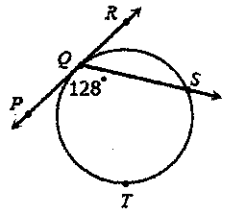
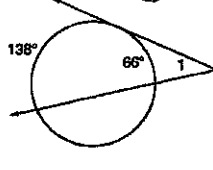
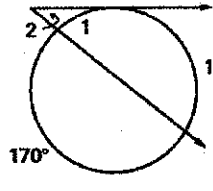
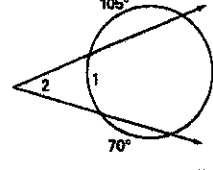
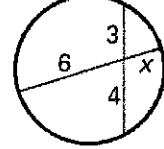
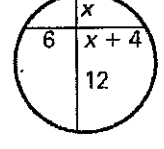
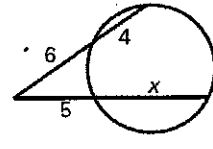
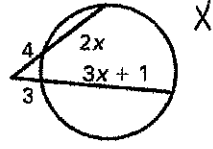
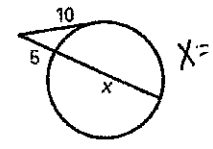
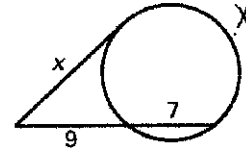
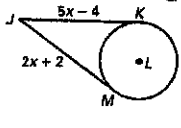
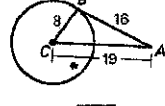
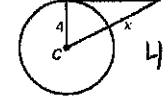
Name: Key

Period: _____

Unit 4B Review Sheet (Circles Only)

You must show all your work on a separate sheet of paper for full credit!

What you need to know & be able to do	Things to Remember	Practice Problems
<p>4.4 - Finding the measures of angles and arcs of inscribed angles</p>	<p>Inscribed Angle = $\frac{\text{Intercepted Arc}}{2}$</p>	<p>1. Find $m\angle GHJ$ 2. Find $m\angle C$ 3. Find $m\widehat{CD}$</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>50°</p> </div> <div style="text-align: center;">  <p>40°</p> </div> <div style="text-align: center;">  <p>80°</p> </div> </div>
<p>4.5 - Congruent Chords & Arcs</p>	<ul style="list-style-type: none"> *If 2 chords are congruent, then their arcs are congruent *If 2 arcs are congruent, then their chords are congruent *2 chords are congruent if they are equidistant from the center of the circle *If a radius or diameter is perpendicular to a chord, then it is also bisecting the chord and its arc 	<p>4. Find the measure of \widehat{GF} arc YX.</p> <div style="text-align: center;">  <p>124°</p> <p>$(35x - 16)^\circ$</p> <p>$31x^\circ$</p> </div> <p>5. Find the measure of \widehat{GF}.</p> <div style="text-align: center;">  <p>6</p> </div> <p>6. If $JG = JF$, $GD = 13$, and $m\widehat{CD} = 136^\circ$, find each measure.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  </div> <div> <p>$ED = 26$</p> <p>$CF = 13$</p> <p>$m\widehat{ED} = 136^\circ$</p> <p>$m\widehat{HD} = 68^\circ$</p> <p>$m\widehat{CE} = 88^\circ$</p> </div> </div>
<p>4.6 - Interior Intersections (find the measure of angles made by chords or secants inside a circle)</p>	<p>Inside Angle = $\frac{1}{2}$ (Arc made by angle + vertical arc)</p>	<p>7. Find $m\angle 1$ and $m\angle 2$</p> <div style="text-align: center;">  <p>$\angle 1 = 82^\circ$</p> <p>$\angle 2 = 98^\circ$</p> </div> <p>8. Find the value of x.</p> <div style="text-align: center;">  <p>$x = 112^\circ$</p> </div> <p>9. Find 1 & 2</p> <div style="text-align: center;">  <p>$1 = 74^\circ$</p> <p>$2 = 94^\circ$</p> </div> <p>10. Find 1 & 2</p> <div style="text-align: center;">  <p>$1 = 53^\circ$</p> <p>$2 = 133^\circ$</p> </div>

<p>4.6 – On the Circle Intersections (find the measures of arcs and angles when a secant and a tangent meet on a circle)</p>	<p>Angle on Circle = $\frac{1}{2}$(arc made by angle)</p>	<p>11. $m\angle DBC$ 84°</p> 	<p>12. $m\widehat{QS}$ 104°</p> 
<p>4.6 – Outside Intersections (find the measures of arcs and angles when secants and tangents meet outside the circle)</p>	<p>Outside Angle = $\frac{1}{2}$ (big arc – small arc)</p>	<p>13. Find 1. 36°</p>  <p>14. Find 1 & 2. $1 = 56^\circ$, $2 = 39^\circ$</p>  <p>15. Find 1 & 2. $1 = 55^\circ$, $2 = 37.5^\circ$</p> 	
<p>4.6 – Segment Measures of Intersecting Chords or Secants</p>	<p><u>Chord #1</u> = <u>Chord #2</u> part · part = part · part</p>	<p>16. Find the value of x</p>  <p>$x = 2$</p>	<p>17. Find the value of x</p>  <p>$x = 4$</p>
<p>4.6 – Segment measures of secants meeting outside the circle</p>	<p><u>Secant #1</u> = <u>Secant #2</u> outside · whole = outside · whole</p>	<p>18. Find the value of x</p>  <p>$x = 7$</p>	<p>19. Find the value of x.</p>  <p>$x = 4$</p>
<p>4.6 – Segments with Tangent and Secant</p>	<p><u>Tangent = Secant</u> $\tan^2 = \text{outside} \cdot \text{inside}$</p>	<p>20. Find the value of x.</p>  <p>$x = 15$</p>	<p>21. Find the value of x.</p>  <p>$x = 12$</p>
<p>4.6 - Tangents</p>	<p>*If 2 tangents come from the same outside point, they are congruent *If a line is tangent to a radius or diameter of a circle, then the tangent and radius/diameter are perpendicular to each other</p>	<p>22. Find JM. $JM = 6$</p>  <p>23. Is \overline{AB} a tangent? Why or why not? no</p> 	<p>24. Find the value of x.</p>  <p>47.5</p> <p>25. \overline{AB} is tangent to circle O. \overline{AB} is 20 ft, and \overline{BO} is 25. Find the radius (\overline{AO}) of circle O. Hint: Draw a picture to help solve! 15</p>