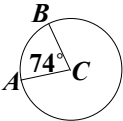
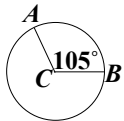
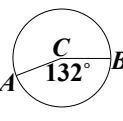
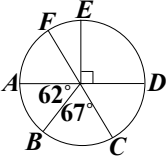
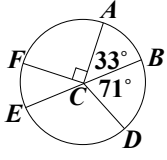
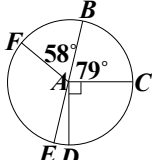
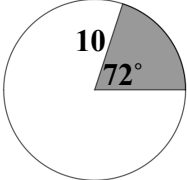
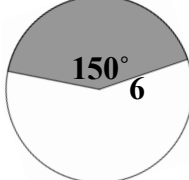
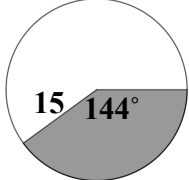
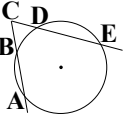
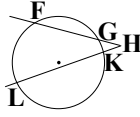
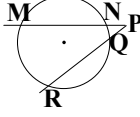
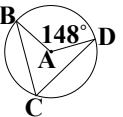
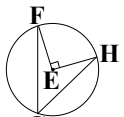
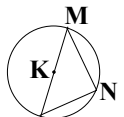
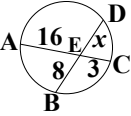
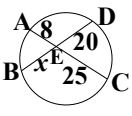
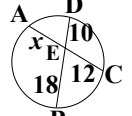
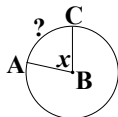
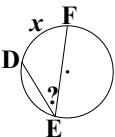
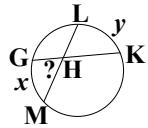
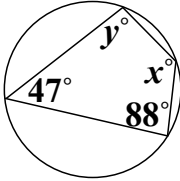
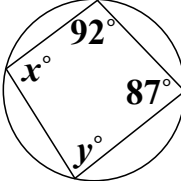
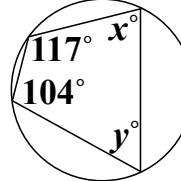
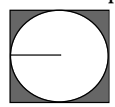
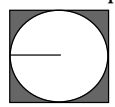
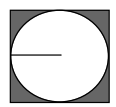
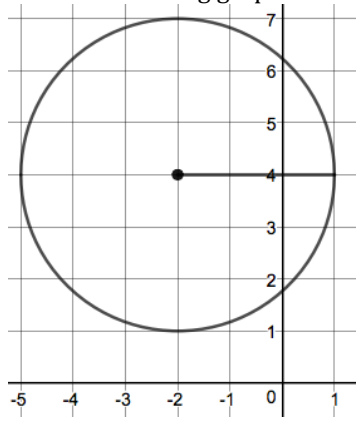
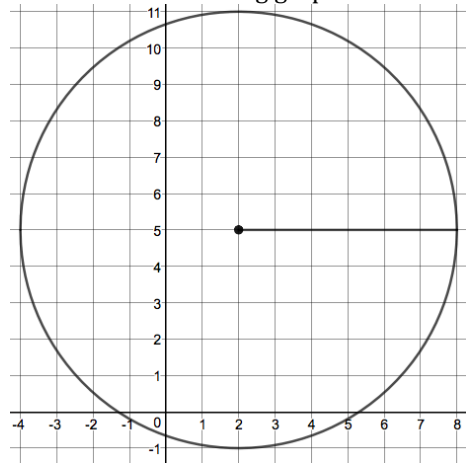
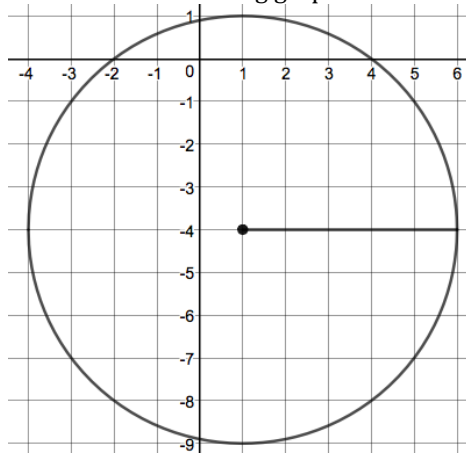


Unit 8 Study Guide

<p>1A. Given the central angle, what is the $m\widehat{AB}$?</p> 	<p>1B. Given the central angle, what is the $m\widehat{AB}$?</p> 	<p>1C. Given the central angle, what is the $m\widehat{AB}$?</p> 
<p>2A. Given the circle, what is the $m\widehat{DF}$?</p> 	<p>2B. Given the circle, what is the $m\widehat{DF}$?</p> 	<p>2C. Given the circle, what is the $m\widehat{DF}$?</p> 
<p>3A. Determine the area of the sector in terms of pi.</p> 	<p>3B. Determine the area of the sector in terms of pi.</p> 	<p>3C. Determine the area of the sector in terms of pi.</p> 
<p>4A. If $m\widehat{AE} = 164^\circ$ and $m\widehat{BD} = 26^\circ$, what is $m\angle ACE$?</p> 	<p>4B. If $m\widehat{FL} = 98^\circ$ and $m\widehat{GK} = 14^\circ$, what is $m\angle FHL$?</p> 	<p>4C. If $m\widehat{MR} = 113^\circ$ and $m\widehat{NQ} = 17^\circ$, what is $m\angle MPR$?</p> 
<p>5A. The endpoints of $\angle BAD$ in a circle form another angle with vertex point C. What is the measure of $\angle BCD$?</p> 	<p>5B. The endpoints of $\angle FEH$ in a circle form another angle with vertex point G. What is the measure of $\angle FGH$?</p> 	<p>5C. The endpoints of diameter \overline{LM} in a circle form an angle with point N. What is the measure of $\angle LNM$?</p> 
<p>6A. In the circle, chords \overline{AC} and \overline{BD} intersect at point E. The lengths in feet of each segment are shown. What is the length of \overline{DE}?</p> 	<p>6B. In the circle, chords \overline{AC} and \overline{BD} intersect at point E. The lengths in feet of each segment are shown. What is the length of \overline{BE}?</p> 	<p>6C. In the circle, chords \overline{AC} and \overline{BD} intersect at point E. The lengths in feet of each segment are shown. What is the length of \overline{AE}?</p> 

<p>7A. In the circle, central angle $\angle ABC$ measures x degrees. What would describe $m\widehat{AC}$?</p> <p>a. $\frac{1}{2}x$ b. x c. $2x$ d. $4x$</p> 	<p>7B. In the circle, the arc \widehat{DF} measures x degrees. What would describe $m\angle DEF$?</p> <p>a. $\frac{1}{2}x$ b. x c. $2x$ d. $4x$</p> 	<p>7C. In the circle, the arc \widehat{GM} measures x degrees, while \widehat{LK} measures y degrees. What would describe $m\angle GHM$?</p> <p>a. $2(x + y)$ b. $2(x - y)$ c. $\frac{1}{2}(x + y)$ d. $\frac{1}{2}(x - y)$</p> 
<p>8A. A quadrilateral is inscribed in a circle. Determine the value of x and y.</p> 	<p>8B. A quadrilateral is inscribed in a circle. Determine the value of x and y.</p> 	<p>8C. A quadrilateral is inscribed in a circle. Determine the value of x and y.</p> 
<p>9A. A circle is inscribed in a square. If the radius of the circle is 5 meters, what is the area of the shaded region? Write your answer in terms of pi.</p> 	<p>9B. A circle is inscribed in a square. If the radius of the circle is 9 meters, what is the area of the shaded region? Write your answer in terms of pi.</p> 	<p>9C. A circle is inscribed in a square. If the radius of the circle is 12 meters, what is the area of the shaded region? Write your answer in terms of pi.</p> 
<p>10A. What is the equation of the circle shown in the following graph?</p> 	<p>10B. What is the equation of the circle shown in the following graph?</p> 	<p>10C. What is the equation of the circle shown in the following graph?</p> 

Unit 8 Study Guide Answers

1A. $m\widehat{AB} = 74^\circ$	1B. $m\widehat{AB} = 105^\circ$	1C. $m\widehat{AB} = 132^\circ$	2A. $m\widehat{DF} = 129^\circ$	2B. $m\widehat{DF} = 166^\circ$	2C. $m\widehat{DF} = 133^\circ$
3A. 20π	3B. 15π	3C. 90π	4A. 69°	4B. 42°	4C. 48°
5A. 74°	5B. 45°	5C. 90°	6A. $DE = 6$	6B. $BE = 10$	6C. $AE = 15$
7A. b. x	7B. c. $\frac{1}{2}x$	7C. c. $\frac{1}{2}(x + y)$	8A. $x = 133^\circ$ $y = 92^\circ$	8B. $x = 93^\circ$ $y = 88^\circ$	8C. $x = 76^\circ$ $y = 63^\circ$
9A. $100 - 25\pi$	9B. $324 - 81\pi$	9C. $576 - 144\pi$	10A. $(x + 2)^2 + (y - 4)^2 = 9$	10B. $(x - 2)^2 + (y - 5)^2 = 36$	10C. $(x - 1)^2 + (y + 4)^2 = 25$