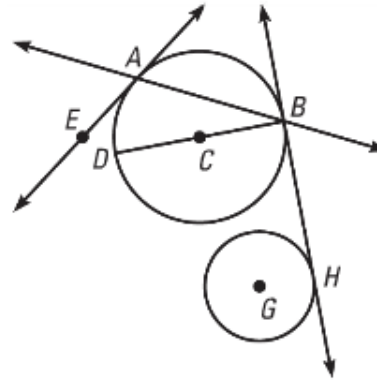


Target 1: Understand, identify, and apply basic facts of circles

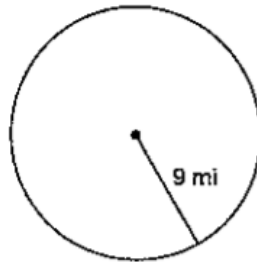
Directions: Match the term and the notation that best describes it.

1) B	a) Center
2) \overrightarrow{BH}	b) Radius
3) \overline{AB}	c) Chord
4) \overleftrightarrow{AB}	d) Diameter
5) \overrightarrow{AE}	e) Secant
6) G	f) Tangent
7) \overline{CD}	g) Point of Tangency
8) \overline{BD}	h) Common Tangent



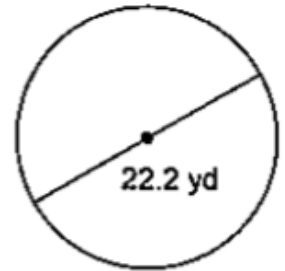
Directions: For 9 and 10, find the exact area and circumference of each circle.

9)



Area: _____ Circumference: _____

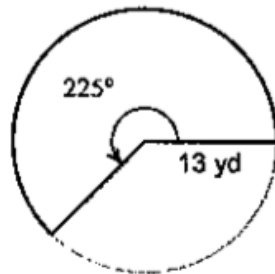
10)



Area: _____ Circumference: _____

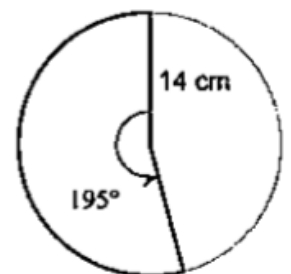
Find the exact length of each arc.

11)



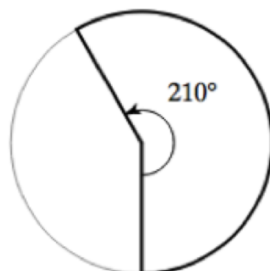
Answer: _____

12)



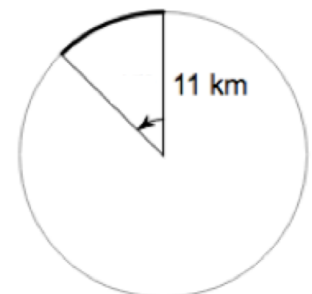
Answer: _____

13) Find the diameter given that area of the indicated sector is 529.620 mi^2 .



Answer: _____

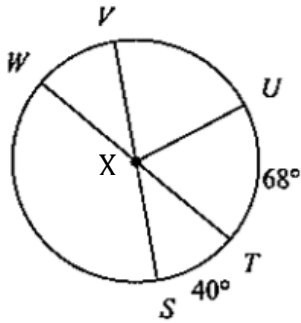
14) Find the measure of the arc of the indicated sector given that the arc length is 8.639 km.



Answer: _____

Directions: Find the measure of the indicated arc or central angle. Assume that lines that appear to be diameters are actual diameters.

15)



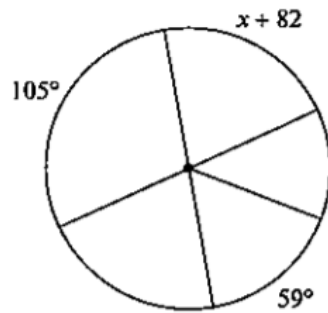
a. $m\widehat{SWT}$

b. $m\widehat{UV}$

c. $m\angle WXU$

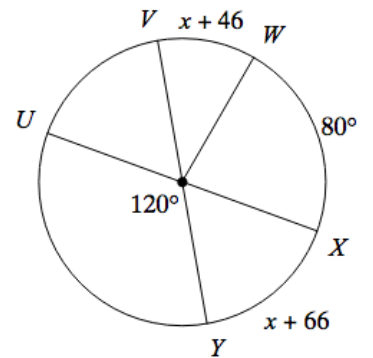
Directions: Find the value of x .

16)



$x =$ _____

17)

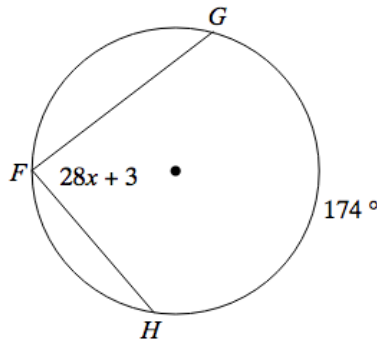


$x =$ _____

Target 2: Understand and apply information about angles formed inside of a circle

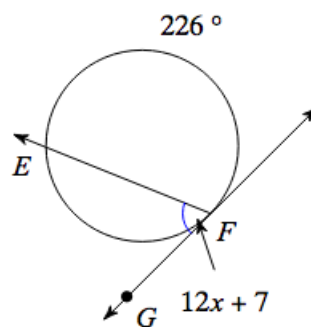
Directions: Solve for the value of x .

18)



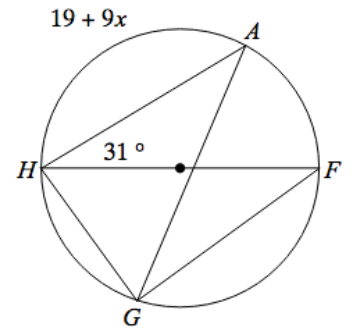
$x =$ _____

20)



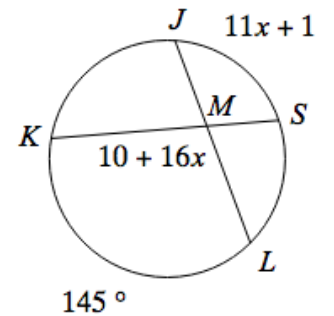
$x =$ _____

19)



$x =$ _____

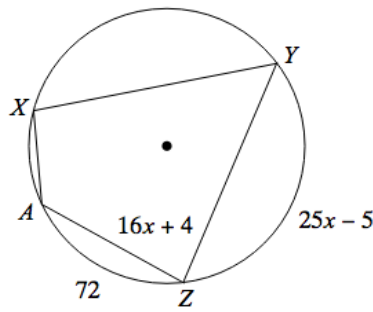
21)



$x =$ _____

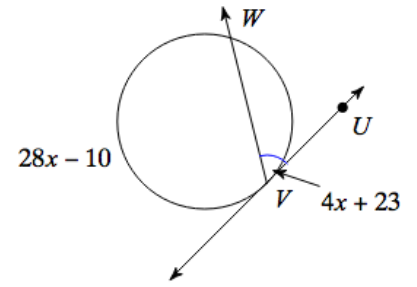
Directions: Find the measure of the indicated arc or angle. Assume that lines that appear to be tangent are tangent.

22)



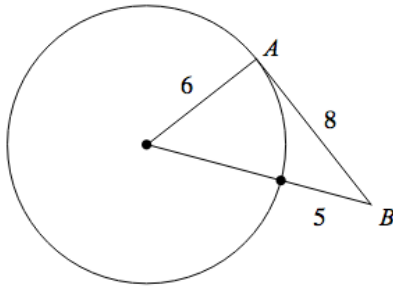
$m\widehat{AZY} =$ _____

23)

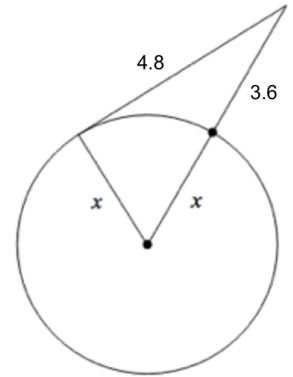


$m\widehat{WV} =$ _____

24) Determine if line AB is tangent to the circle.



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



Honors Geometry 9.1 - 9.2 Review Answers

- | | |
|---|--|
| 1. G | 15. |
| 2. H | a. 320 degrees |
| 3. C | b. 72 degrees |
| 4. E | c. 112 degrees |
| 5. F | 16. $x = -7$ |
| 6. A | 17. $x = -6$ |
| 7. B | 18. $x = 3$ |
| 8. D | 19. $x = 11$ |
| 9. $A = 81\pi \text{ mi}^2$; $C = 18\pi \text{ mi}$ | 20. $x = 5$ |
| 10. $A = 123.21\pi \text{ yd}^2$; $C = 18\pi \text{ mi}$ | 21. $x = 6$ |
| 11. $\frac{65}{4}\pi \text{ yd}$ | 22. $x = 5$; $m\widehat{AZY} = 192 \text{ degrees}$ |
| 12. $\frac{91}{6}\pi \text{ cm}$ | 23. $x = 9$; $m\widehat{WV} = 242 \text{ degrees}$ |
| 13. $\approx 34 \text{ mi}$ | 24. $121 \neq 100$: No |
| 14. 44.998 km | 25. $x = 1.4$ |