

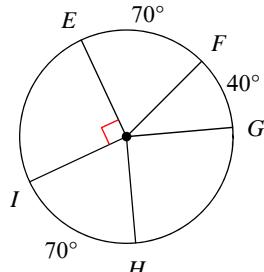
CIRCLES

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Date_____ Period____

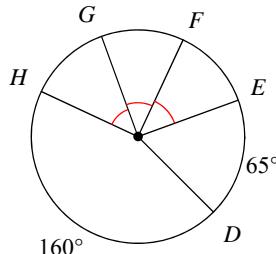
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\widehat{IEG}$



- A) 200° B) 85°
C) 37° D) 96°

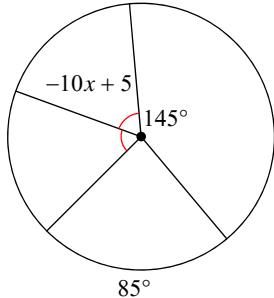
2) $m\widehat{FE}$



- A) 55° B) 61°
C) 66° D) 45°

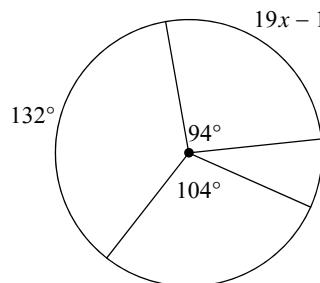
Solve for x . Assume that lines which appear to be diameters are actual diameters.

3)



- A) -4 B) -2
C) 10 D) -6

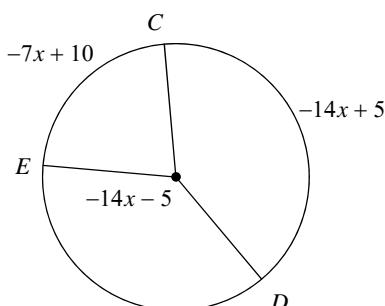
4)



- A) -12 B) 10
C) 5 D) 9

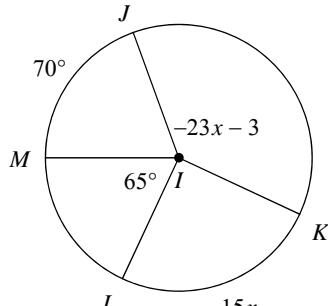
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

5) $m\widehat{DE}$



- A) 144° B) 132°
C) 140° D) 135°

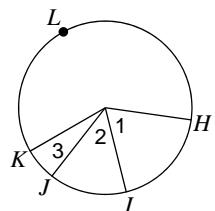
6) $m\angle KIL$



- A) 95° B) 90°
C) 89° D) 107°

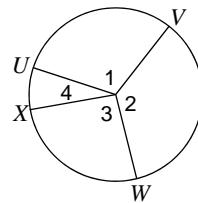
If an angle is given, name the arc it makes. If an arc is given, name its central angle.

7) Major arc for $\angle 3$



- A) \widehat{HI}
B) \widehat{JHK}
C) \widehat{HKI}
D) \widehat{IJ}

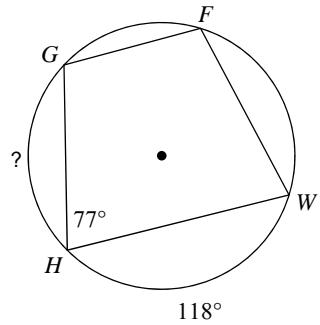
8) Major arc for $\angle 1$



- A) \widehat{UX}
B) \widehat{UWV}
C) \widehat{VXW}
D) \widehat{UV}

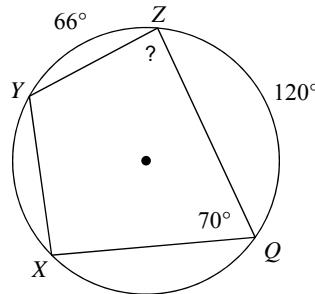
Find the measure of the arc or angle indicated.

9)



- A) 46°
B) 88°
C) 85°
D) 49°

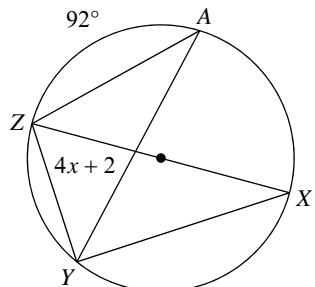
10)



- A) 107°
B) 62°
C) 59°
D) 87°

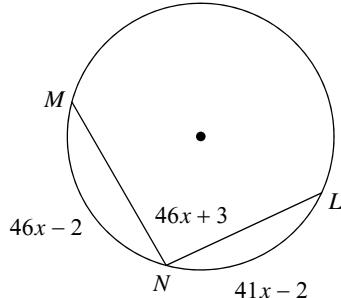
Solve for x .

11)



- A) 2
B) 6
C) 4
D) 11

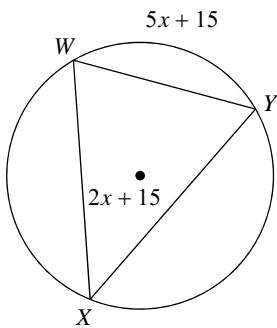
12)



- A) 13
B) 2
C) 0
D) 14

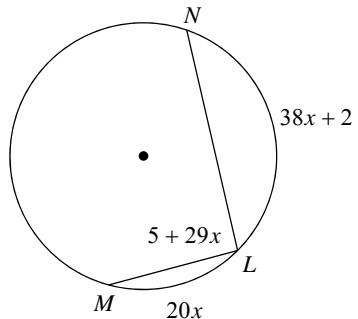
Find the measure of the arc or angle indicated.

13) Find $m\angle YXW$



- A) 45° B) 56°
C) 54° D) 25°

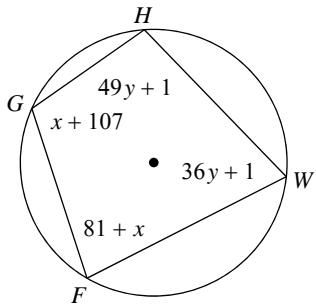
14) Find $m\widehat{LM}$



- A) 65° B) 56°
C) 60° D) 68°

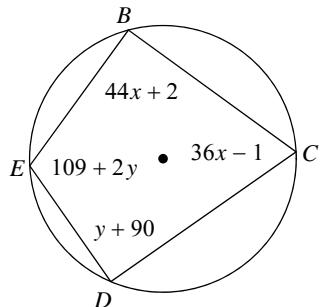
Solve for x and y .

15)



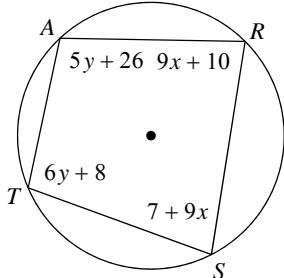
- A) $x = 6, y = 0$
B) $x = 0, y = 4$
C) $x = 0, y = 2$
D) $x = 11, y = 2$

16)



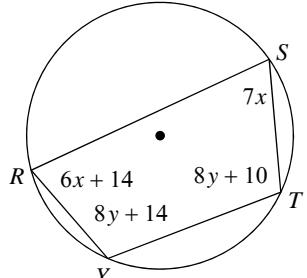
- A) $x = 7, y = 15$
B) $x = 10, y = 6$
C) $x = 2, y = 0$
D) $x = 12, y = 6$

17)



- A) $x = 5, y = 12$
B) $x = 3, y = 9$
C) $x = 8, y = 15$
D) $x = 12, y = 7$

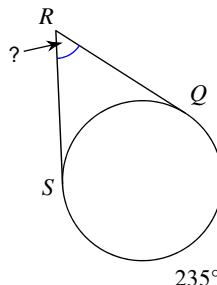
18)



- A) $x = 8, y = 10$
B) $x = 3, y = 4$
C) $x = 10, y = 12$
D) $x = 3, y = 13$

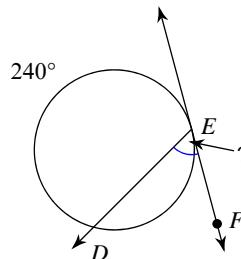
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

19)



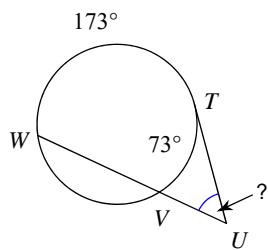
- A) 39° B) 45°
C) 50° D) 55°

20)



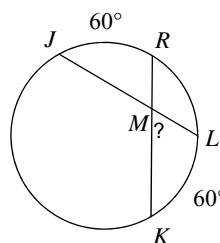
- A) 35° B) 60°
C) 75° D) 39°

21)



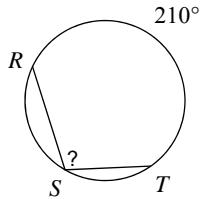
- A) 60° B) 70°
C) 45° D) 50°

22)



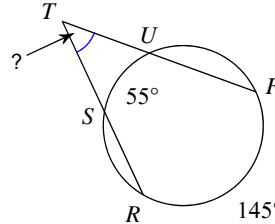
- A) 60° B) 40°
C) 44° D) 35°

23)



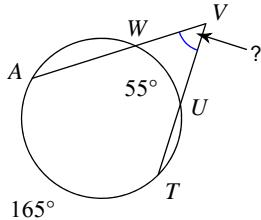
- A) 120° B) 105°
C) 139° D) 90°

24)



- A) 40° B) 55°
C) 45° D) 50°

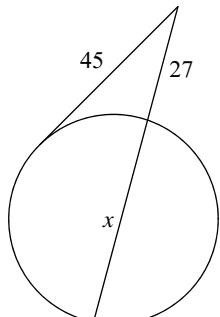
25)



- A) 33° B) 35°
C) 70° D) 55°

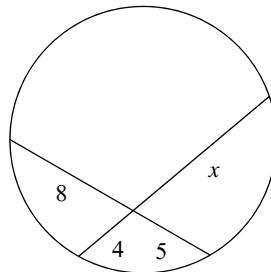
Solve for x . Assume that lines which appear tangent are tangent.

26)



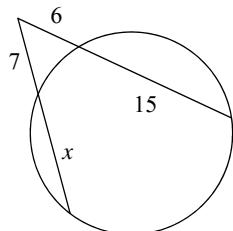
- A) 31 B) 45
C) 60 D) 48

27)



- A) 10 B) 8
C) 13 D) 6

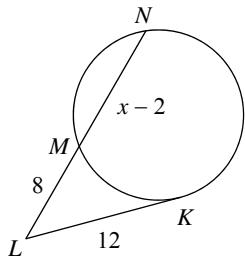
28)



- A) 13 B) 11
C) 15 D) 12

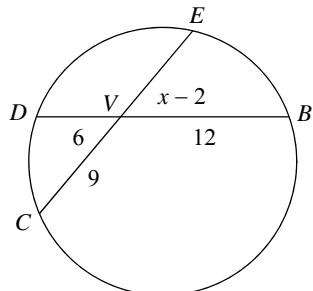
Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

29) Find LN



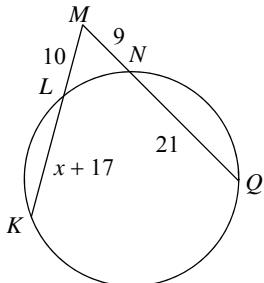
- A) 21 B) 18
C) 25 D) 24

30) Find VE



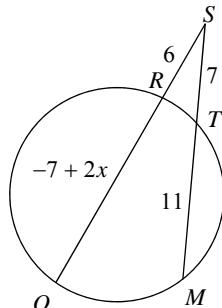
- A) 11 B) 6
C) 5 D) 8

31) Find KM



- A) 32 B) 27
C) 36 D) 30

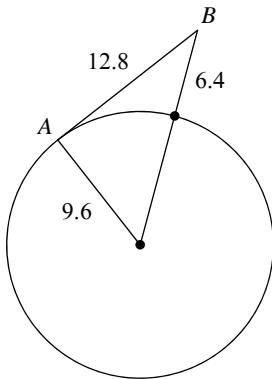
32) Find QR



- A) 13 B) 15
C) 19 D) 18

Determine if line AB is tangent to the circle.

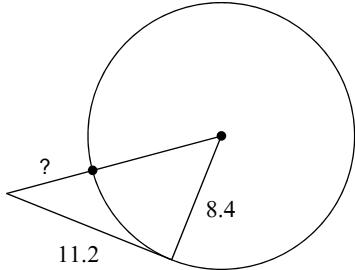
33)



- A) Tangent B) Not tangent

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

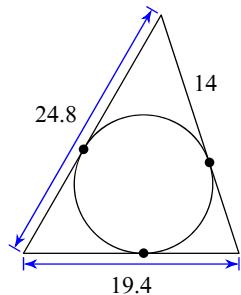
34)



- A) 6.6 B) 5.7
C) 4.8 D) 5.6

Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

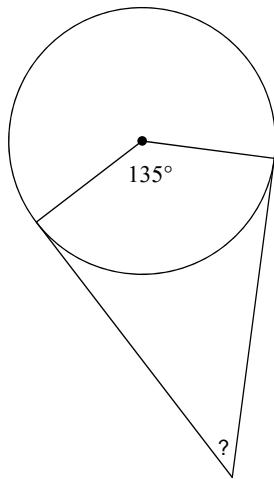
35)



- A) 51.3 B) 48.4
C) 75.2 D) 66.8

Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.

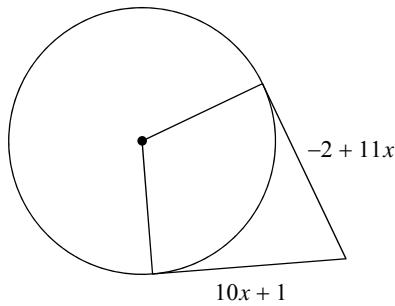
36)



- A) 45° B) 39°
C) 27° D) 38°

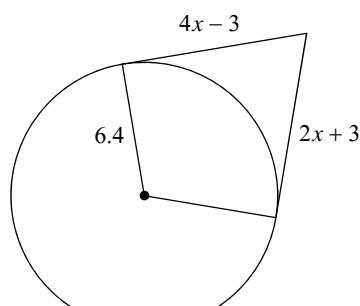
Solve for x . Assume that lines which appear to be tangent are tangent.

37)



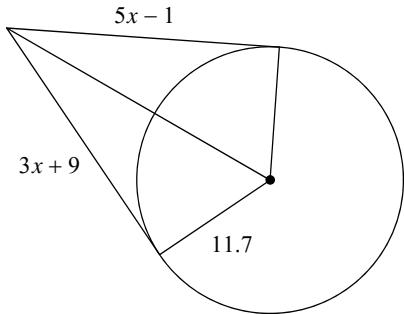
- A) 11 B) 4
C) 6 D) 3

38)



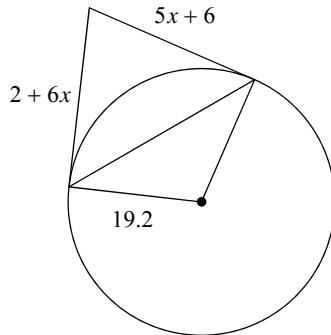
- A) 6 B) 4
C) 3 D) 0

39)



- A) 9 B) 11
C) 5 D) 3

40)



- A) 4 B) 0
C) 7 D) 2

Use the information provided to write the equation of each circle.

41) Center: $(12, -14)$

Radius: 1

- A) $(x - 14)^2 + (y + 14)^2 = 9$
B) $(x + 13)^2 + (y + 13)^2 = 1$
C) $(x + 10)^2 + (y + 16)^2 = 1$
D) $(x - 12)^2 + (y + 14)^2 = 1$

42) Center: $(3, -2)$

Radius: 7

- A) $(x - 3)^2 + (y + 2)^2 = 49$
B) $(x - 2)^2 + (y + 3)^2 = 2401$
C) $(x - 3)^2 + (y - 2)^2 = 49$
D) $(x + 2)^2 + (y - 2)^2 = 49$

Identify the center and radius of each.

43) $(x + 1)^2 + (y - 14)^2 = 19$

- A) Center: $(-1, -14)$
Radius: $\sqrt{19}$
B) Center: $(-1, 14)$
Radius: 19
C) Center: $(-14, 1)$
Radius: $\sqrt{19}$
D) Center: $(-1, 14)$
Radius: $\sqrt{19}$

44) $(x + 12)^2 + (y + 4)^2 = 38$

- A) Center: $(4, 12)$
Radius: 1
B) Center: $(-2, 10)$
Radius: $\sqrt{38}$
C) Center: $(-12, -4)$
Radius: $\sqrt{38}$
D) Center: $(-12, -4)$
Radius: 38