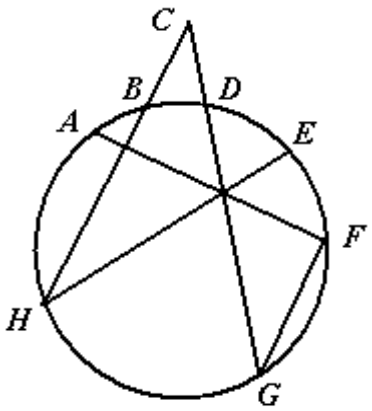
CP Geometry
Review Jeopardy 8



I. Terminology

1.) Define a minor arc.
2.) Draw concentric circles.
3.) Define a tangent.
4.) Define a secant.
5.) Name a major arc in the figure:
6.) Define a chord.

II. Circles in the Coordinate Plane

2.) Find the center point and radius of the circle:
$(x-6)^2+(y+2)^2=100$

3.) Find the center point and radius of the circle:
$(x-3)^2+(y+7)^2=4$

4.) Write the equation of a circle with center (-4, 5) and radius 6.

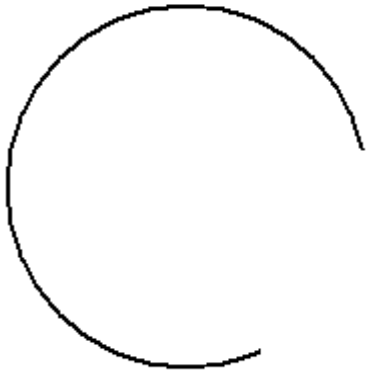
5.) Find the center point and radius of the circle:
$(x-2)^2+y^2=10$

6.) Write the equation of a circle with center (-3, -7) tangent to the y-axis.

III. Constructions

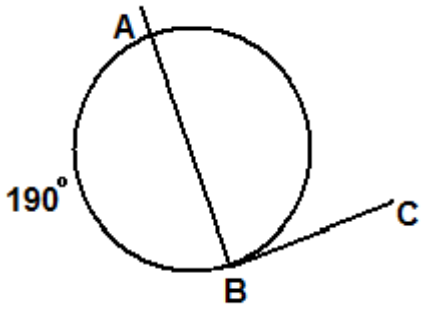
5.) Find the length of the arc below in centimeters (show constructions)

6.) Find the length of the arc below in centimeters (show constructions)

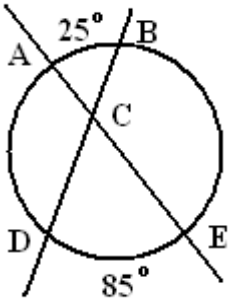


IV. Angles in Circles

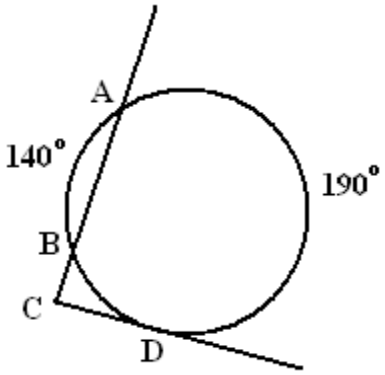
1.) m < ABC = ?
(Tangent at B)



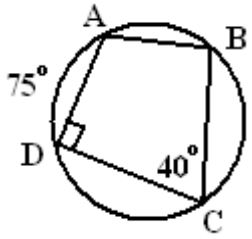
2.) m < BCE = ??



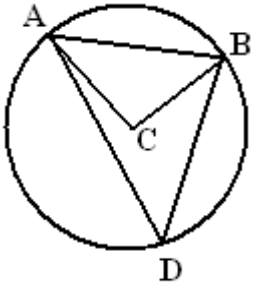
3.) m < ACD = ??
(Tangent at D)



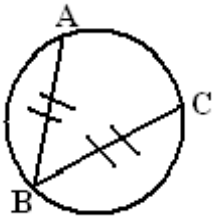
4.) Find the measure of arc BC.



5.) m < ADB = 50
m < CAB = ??

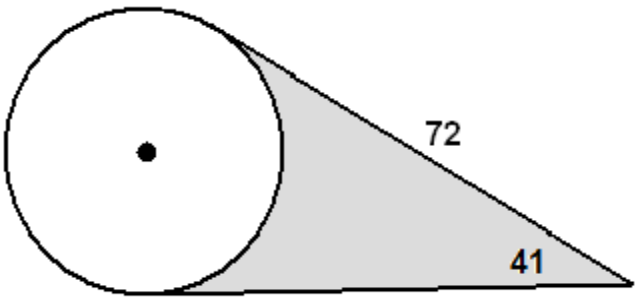


6.) Length of AB = 15.359 in
Radius = 10 in
Measure of arc ABC = ?

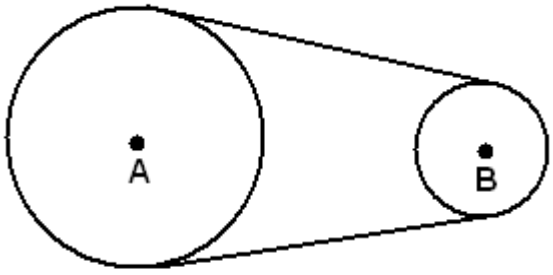


IV. Tangent Lines

5.) Find the area of the shaded region enclosed by two tangents to the circle.

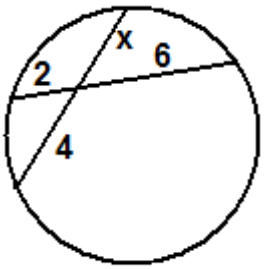


6.) Radius of Circle A = 50 cm
Radius of Circle B = 35 cm
AB = 124 cm
What is the length of the belt?

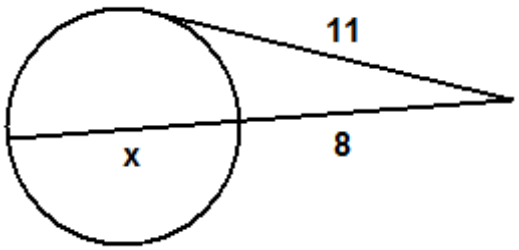


V. Power of a Point

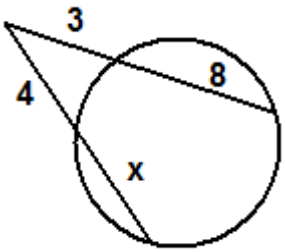
2.)



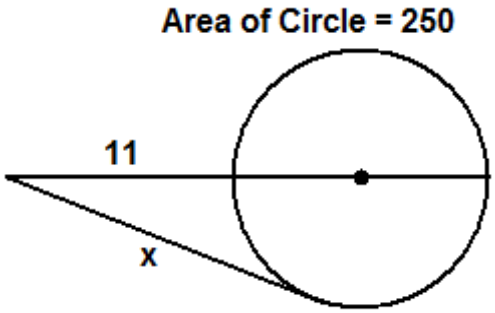
3.)



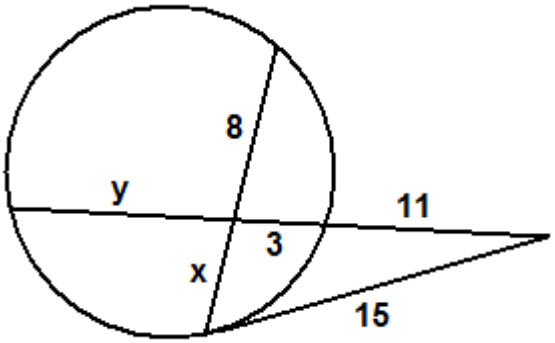
4.)



5.)

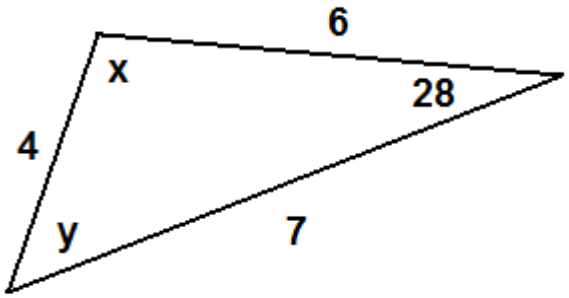


6.)

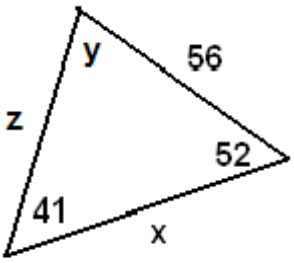


VI. Law of Sines / Law of Cosines

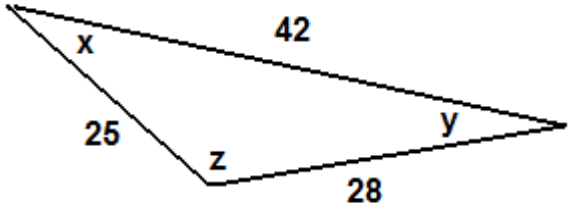
4.)



5.)



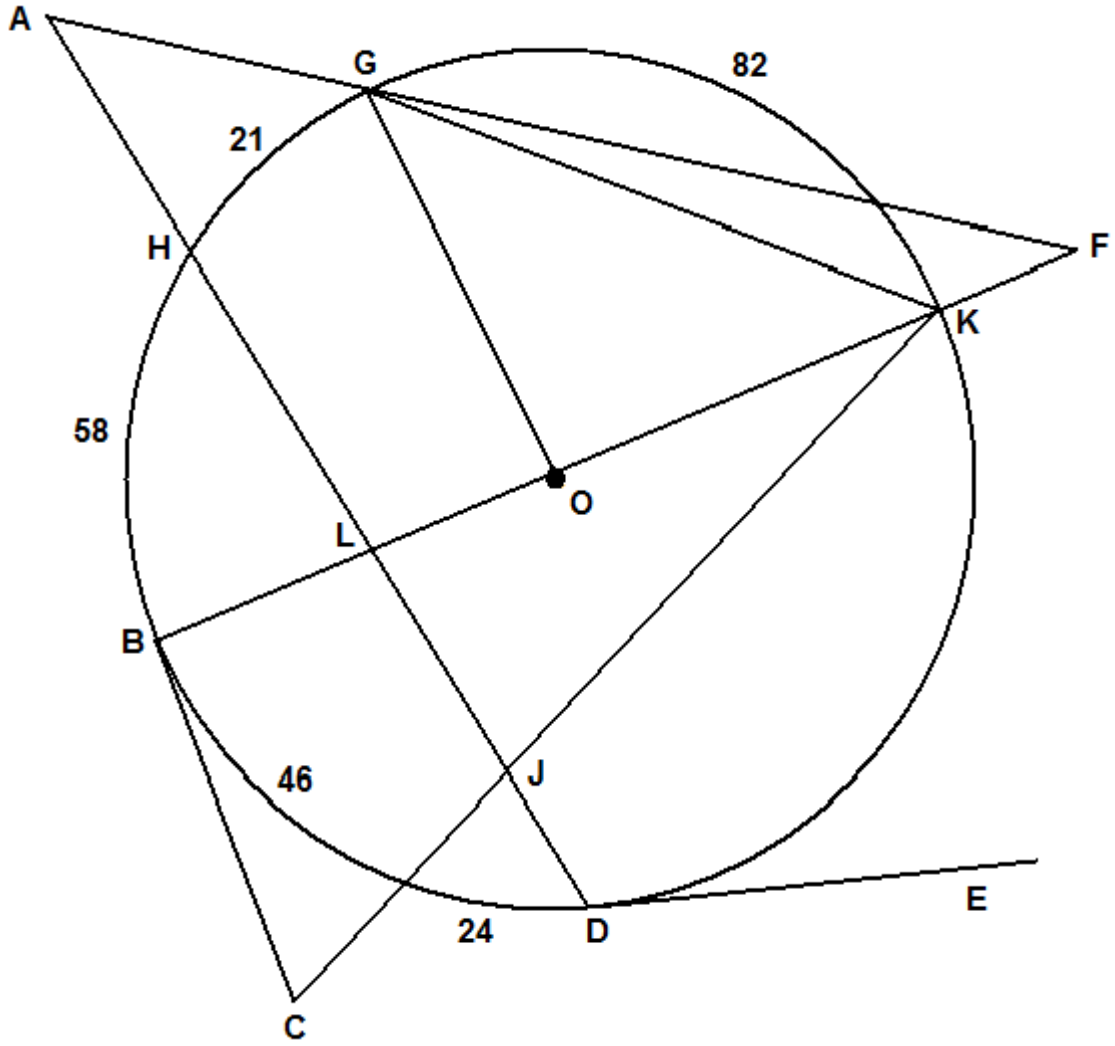
6.)



Final Jeopardy!

O is the center

B, D are tangent pts



1.) m < FAD = _____

2.) m < HLF = _____

3.) m < BCK = _____

4.) m < ADE = _____

5.) m < BKC = _____

6.) m < AFK = _____

7.) m < DJK = _____

8.) m < FBC = _____

9.) m < FAD = _____

10.) m < OGK = _____