March 21, 2016

How is the central angle of a circle and an inscribed angle related?

MCC9-12.G.C.2 Identify and describe relationships among inscribed angles, radii, and chords. Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles, the radius of a circle is perpendicular to the tangent where the radius intersects the circle.

Mr. Harlan - Sub

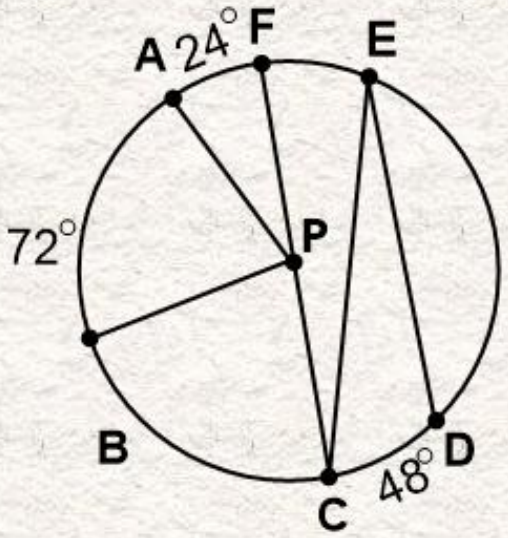
Surveys in Lab

Quiz Review Lesson for today

Quiz Tomorrow

Questions 1 - 5

1. What kind of angle is <CED? What is its measure? inscribed; 24°



2. What kind of angle is <APB? What is its measure? central; 72°

3. What kind of arc is $\overset{\frown}{BFC}$? What is its measure? major arc; 276°

4. What kind of arc is $\overset{\frown}{FBC}$? What is its measure?

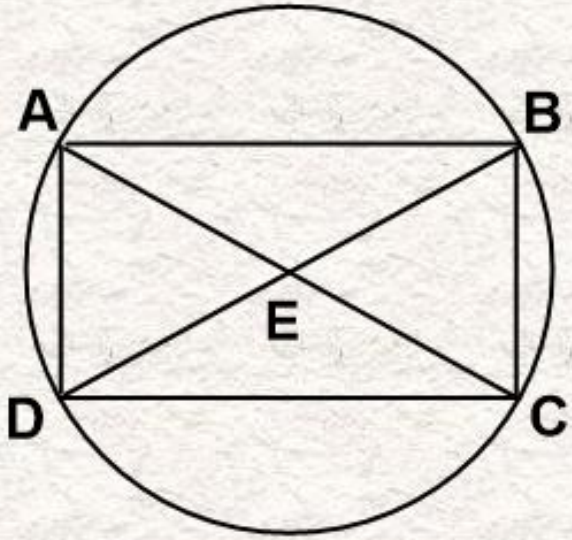
semi-circle; 180°

5. What kind of arc is $\overset{\frown}{BC}$? What is its measure?

minor; 84°

Questions 6 - 11

For questions 6 through 11, use circle E. The mAB = 106º, mBC = 74º and BD is a diameter.



6. m<CAD = 53°

7. m<ABD = 37°

8. m<DEC = 106°

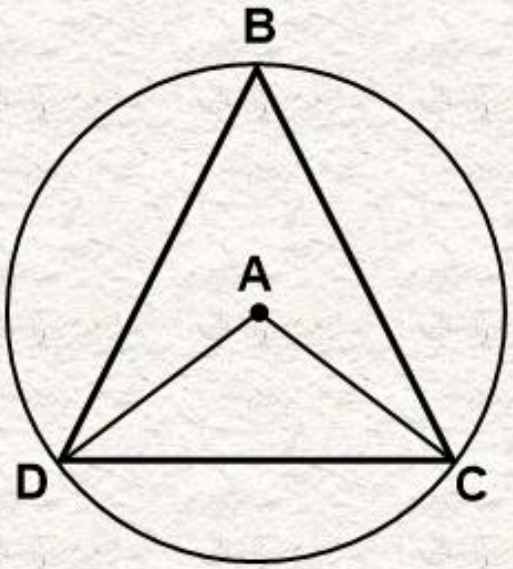
9. m<BEC = 74°

10. m<DCA = 37°

11. m<$\overset{\frown}{ABD}$ = 286°

Questions 12 - 16

Use the figure of circle A below for questions 12 through 14. The m<DBC = 48° and $m\overset{\frown}{BD}$ = 134°.



12. m<DAC = 96°

13. m<BCD = 67°

14. $m\overset{\frown}{DC}$ = 96°

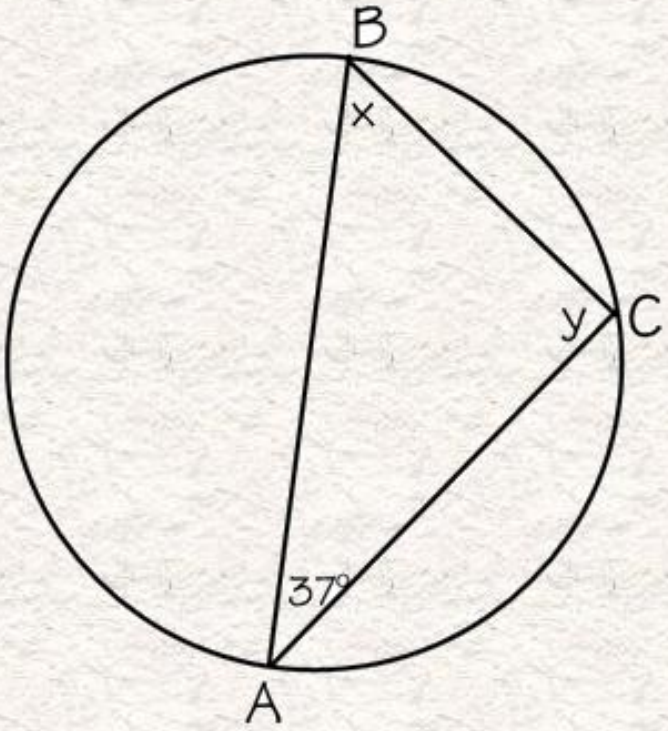
15. m<BDC = 65°

16. $m\overset{\frown}{BC}$ = 130°

Questions 17 - 21

Use the figure to the right for questions 17 through 21.

$\overline{AB}$ is a diameter.



17. x = 53°

18. y = 90°

19. $m\overset{\frown}{BC}$ = 74°

20. $m\overset{\frown}{AC}$ = 106°

21. $m\overset{\frown}{AB}$ = 180°

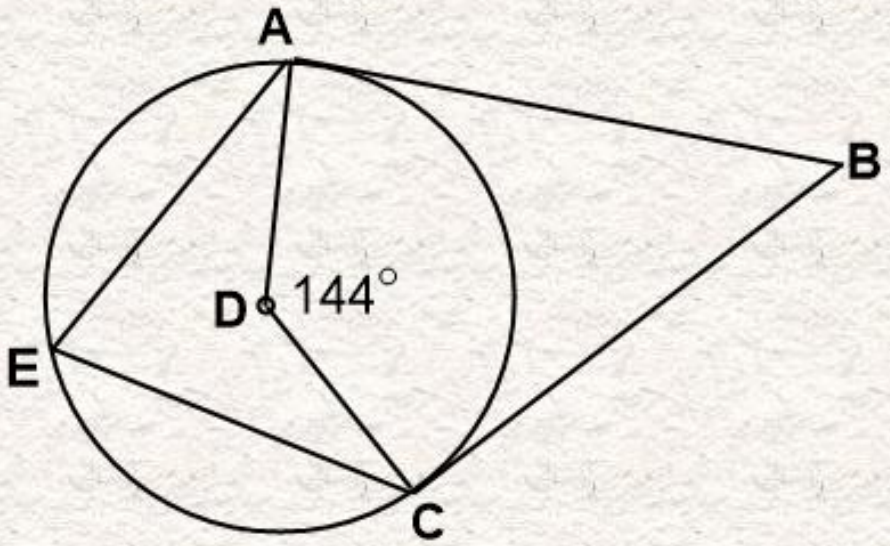
Questions 22 - 25

22. $m\overset{\frown}{AC}$ = 144°

23. m<ABC = 36°

24. m<AEC = 72°

25. $m\overset{\frown}{AEC}$ = 216°



Questions 26 - 30

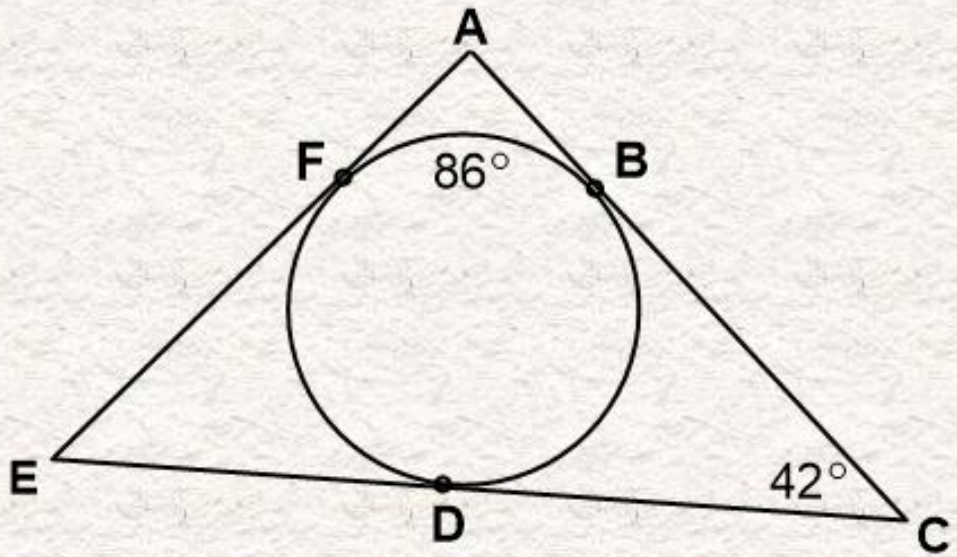
26. m<FAB = 94°

27. $m\overset{\frown}{BD}$ = 138°

28. $m\overset{\frown}{FD}$ = 136°

29. m<FED = 44°

30. $m\overset{\frown}{DFB}$ = 222°



Study for your Quiz!