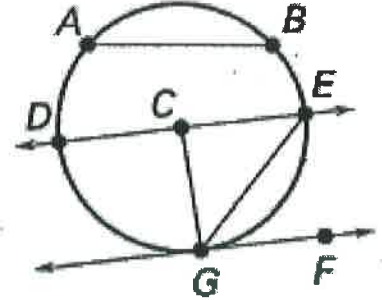


Accelerated Geometry
Sections 9-1 to 9-4
Quiz Review

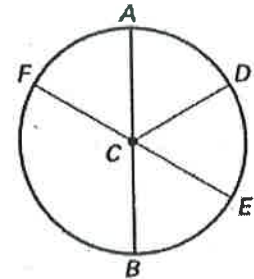
Tell whether the line or segment is best described as a chord, a secant, a tangent, a diameter or a radius of $\odot C$.

- | | |
|-----------------------------------|------------------------------------|
| 1. \overline{AB} <u>chord</u> | 2. \overline{DE} <u>secant</u> |
| 3. \overline{DC} <u>radius</u> | 4. \overline{DE} <u>diameter</u> |
| 5. \overline{FG} <u>tangent</u> | 6. \overline{CG} <u>radius</u> |
| 7. \overline{EG} <u>chord</u> | 8. \overline{EC} <u>radius</u> |

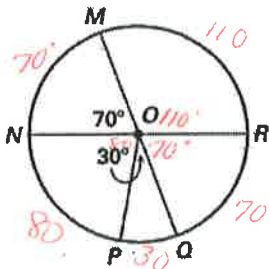


Determine whether the arc is a minor arc, a major arc, or a semicircle of Circle C.

- | | |
|---------------------------------------|---------------------------------------|
| 9. \widehat{AE} <u>minor</u> | 10. \widehat{AEB} <u>semicircle</u> |
| 11. \widehat{FDE} <u>semicircle</u> | 12. \widehat{DFB} <u>major</u> |
| 13. \widehat{FA} <u>minor</u> | 14. \widehat{BE} <u>minor</u> |
| 15. \widehat{BDA} <u>semicircle</u> | 16. \widehat{FB} <u>minor</u> |

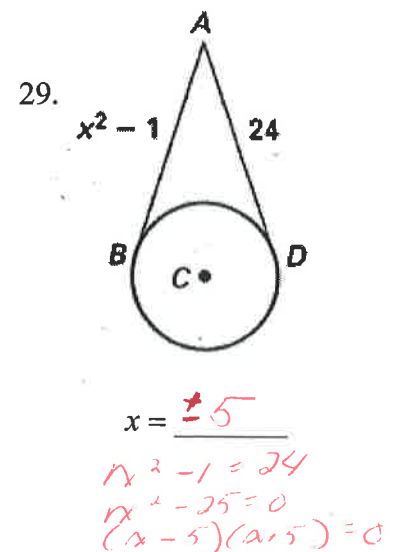
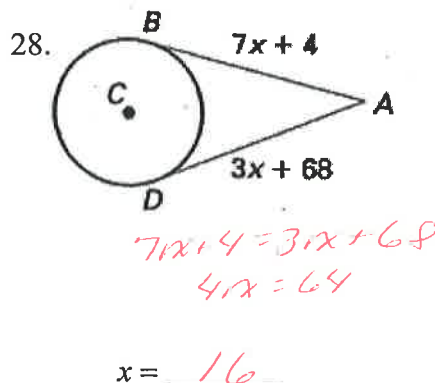
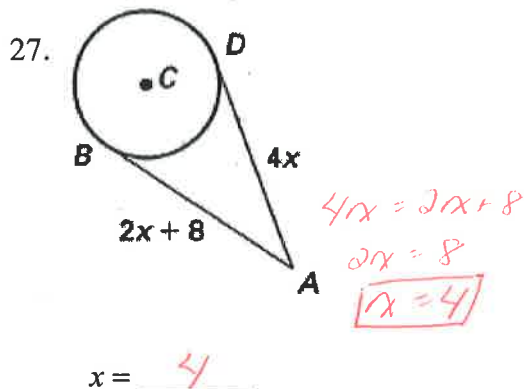


\overline{MQ} and \overline{NR} are diameters. Find the indicated measure.



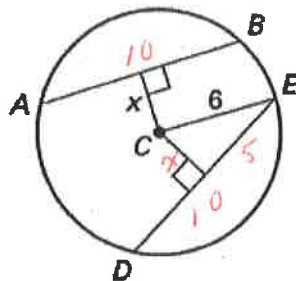
- | | |
|----------------------------------|----------------------------------|
| 17. $m\widehat{MN}$ <u>70°</u> | 18. $m\widehat{NQ}$ <u>110°</u> |
| 19. $m\widehat{NQR}$ <u>180°</u> | 20. $m\widehat{MRP}$ <u>210°</u> |
| 21. $m\widehat{QR}$ <u>70°</u> | 22. $m\widehat{MR}$ <u>110°</u> |
| 23. $m\widehat{QMR}$ <u>290°</u> | 24. $m\widehat{PQ}$ <u>30°</u> |
| 25. $m\widehat{PRN}$ <u>280°</u> | 26. $m\widehat{MQN}$ <u>290°</u> |

\overline{AB} and \overline{AD} are tangent to $\odot C$. Find the value of x .



Use the given information to find the value of x .

30. $AB = DE = 10$, radius = 6



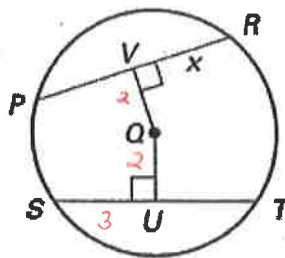
$$5^2 + x^2 = 6^2$$

$$25 + x^2 = 36$$

$$x^2 = 11$$

$x = \sqrt{11}$

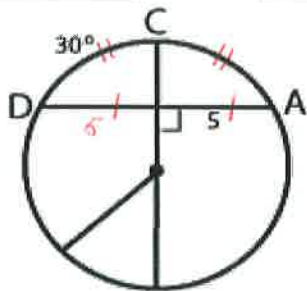
31. $QV = 2$, $QU = 2$, $SU = 3$



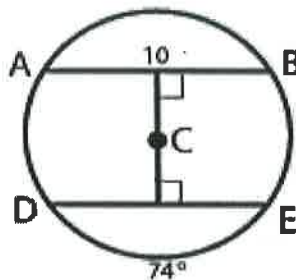
Chords equidistant from center of circle are \cong .

$x = 3$

32. $AD = 10$, $m\widehat{CA} = 30^\circ$

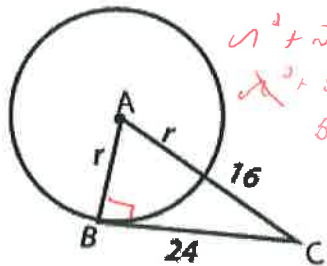


33. $DE = 10$, $m\widehat{AB} = 74^\circ$



Solve. Give an explanation where prompted.

34.



$$r^2 + 24^2 = (r + 16)^2$$

$$r^2 + 576 = r^2 + 32r + 256$$

$$576 = 32r + 256$$

$$320 = 32r$$

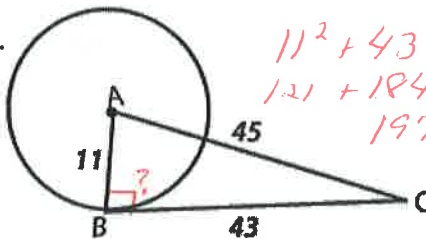
$$10 = r$$

Given that \overline{BC} is tangent to Circle A,

Find the radius of the circle.

Radius = 10

35.



$$11^2 + 43^2 = 45^2$$

$$121 + 1849 = 2025$$

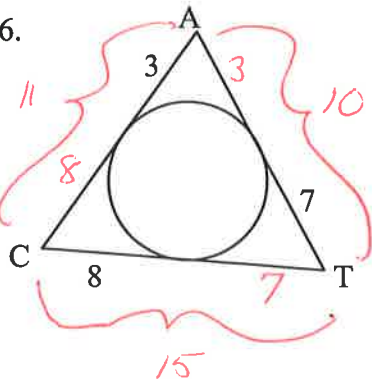
$$1970 \neq 2025$$

Is \overline{CE} tangent to Circle D? Explain.

No b/c does not form a right Δ .

Find the perimeter of $\triangle CAT$.

36.



$$P = 10 + 11 + 15$$

$P = 36$ units