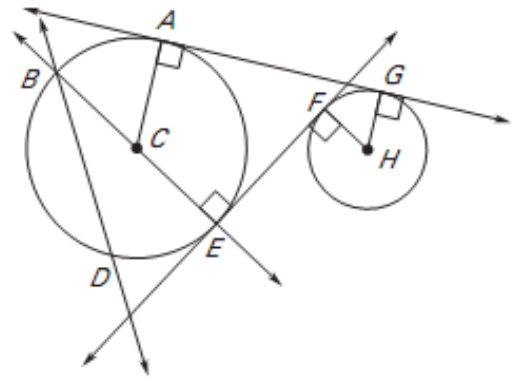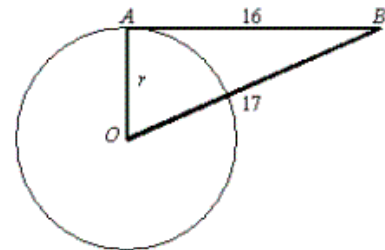Please give the best name for the segment, line, or point using the figure below.
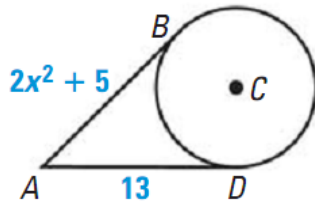
1. H _____

2. E _____

3. $\overline{HF}$ _____

4. $\overleftrightarrow{AG}$ _____

5. A _____

6. $\overline{BD}$ _____

7. $\overleftrightarrow{BD}$ _____

8. $\overline{BE}$ _____

9. $\overleftrightarrow{FE}$ _____
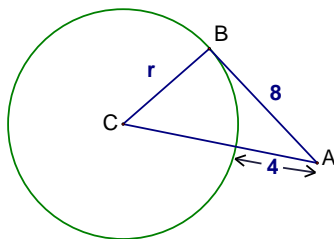
10. $\overline{AC}$ _____

11. Given that $\overline{AB}$ is tangent to $\odot O$ and $BO = 17$, please solve for the radius r.

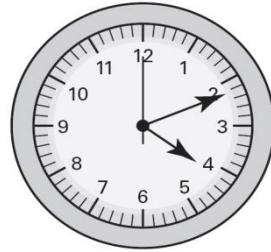12. Given $\overline{AB}$ and $\overline{AD}$ are tangent to $\odot O$, please find the value(s) of x.
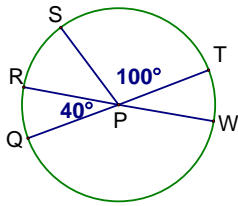
$2x^2 + 5$

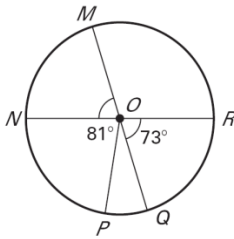13. Given that $\overline{AB}$ is tangent to $\odot C$, please find the length of radius r.

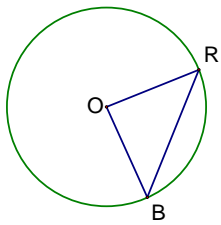14. What is the measure of the minor arc created when the second hand moves from the 12 to the 5 on a clock?

15. Please find mQW.

16. Please find $mPRM$.

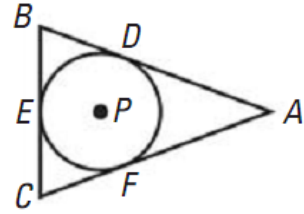17. The measure of arc RB is 90°. If the radius of $\odot O$ = 6, then what is the length of $\overline{RB}$?

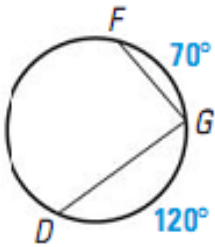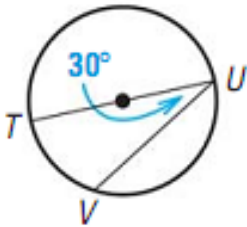18. On $\odot P$, $mAB = 60°$, $mBC = 25°$, $mCD = 70°$, and $mDE = 20°$. Assuming none of the arcs overlap, please find mAE.

19. In the diagram at the right, AB = AC = 12, BC = 8, and all three segments are tangent to ⊙P. Please find the length of the radius for ⊙P.

20. Please find $m\angle G$.
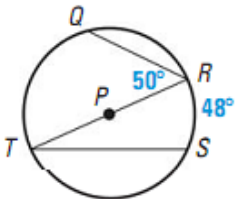

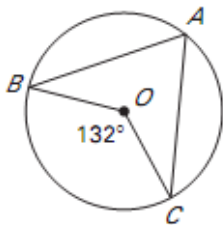21. Please find $mVUT$.

22. Please find mQR.
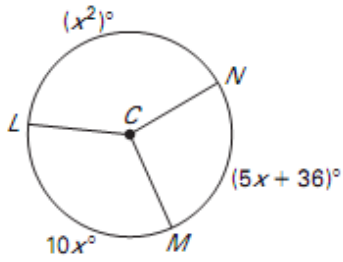

23. Please find $m\angle A$.

24. Please solve for x.

$(x^2)°$

N

C

$(5x + 36)°$

L

$10x°$ M

25. Please find the sum of c and x.

S

$c°$

$10x°$ T

$8x°$ U

$(2c - 6)°$

V
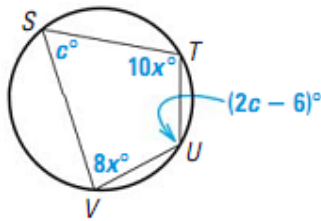
Answer Key

1. Center   2. Point of Tangency   3. Radius   4. Common external tangent   5. Point of tangency
6. Chord   7. Secant   8. Diameter   9. Common internal tangent   10. Radius   11. 5.7   12. ±2
13. 6   14. 150°   15. 140°   16. 206°   17. $6\sqrt{2}$ 18. 185°   19. $2\sqrt{2}$ 20. 85°   21. 300°
22. 80°   23. 66°   24. 12   25. 72