

# Inscribed Angles 22.3



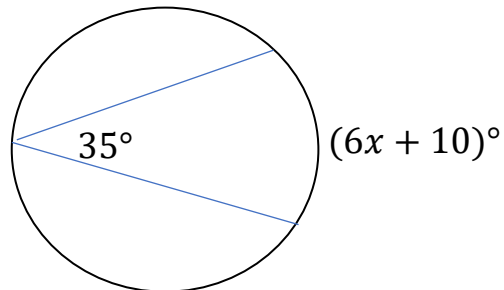
## Overview of Problems

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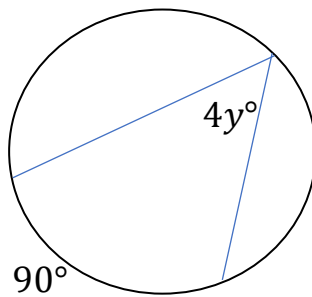
### Example Set: A

Find the value of the variable:

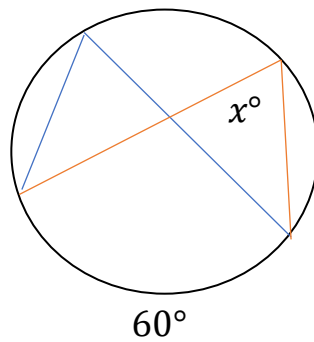
1.



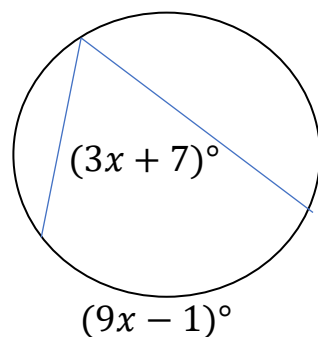
2.



3.



4.



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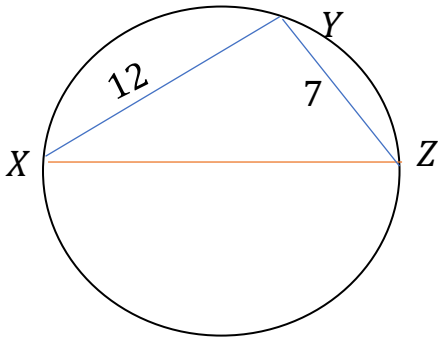


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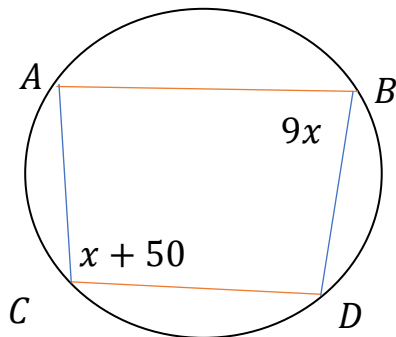
### Example Set: B

Answer the following questions:

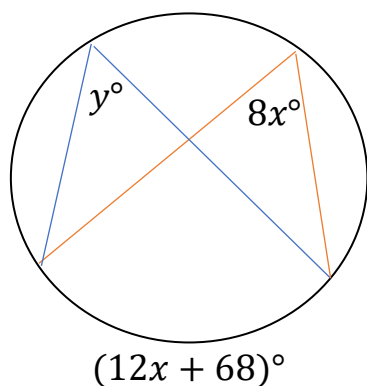
1.  $\overline{XZ}$  is a diameter. Find the Radius.



2.  $ABCD$  is a quadrilateral. Find the value of  $x$ .



3. Find the value of  $x$  and  $y$



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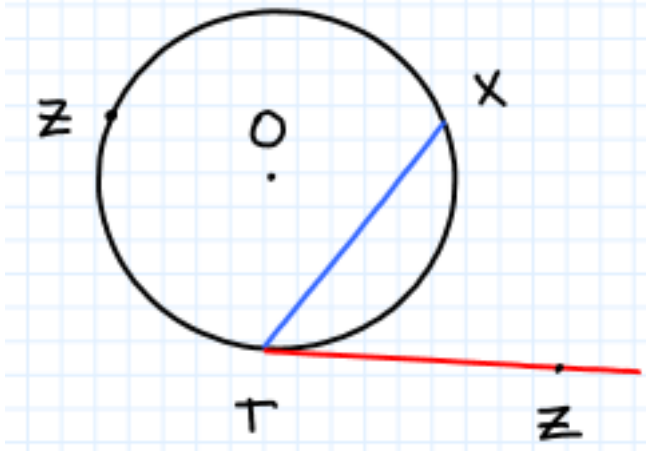


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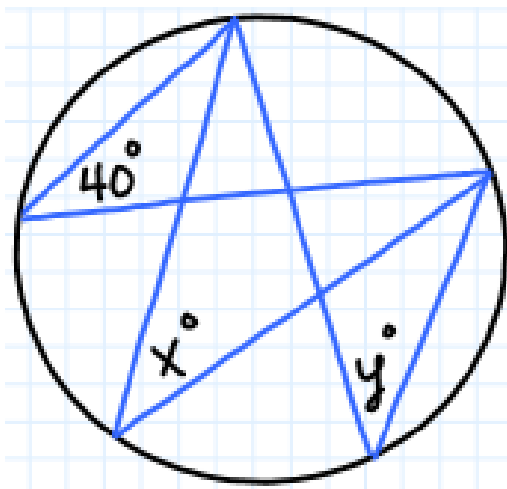
### Example Set: C

Answer the following questions:

1.  $m\widehat{XZT} = 260^\circ$ .  $TZ$  is tangent to circle  $O$ .  
Find  $m\angle XTZ$



2. Find the value of  $x$  and  $y$ .



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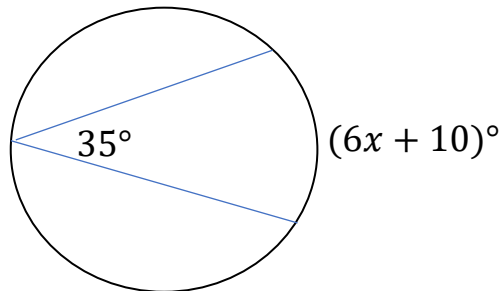
## Overview of Problems



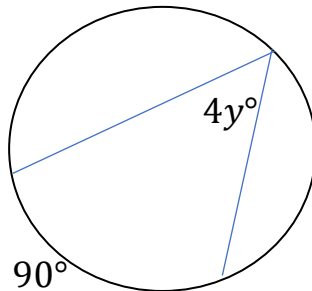
### Example Set: A -ANSWER KEY

Find the value of the variable:

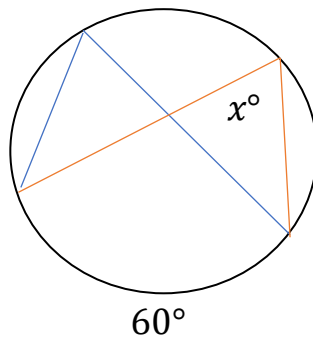
1.  $x = 10$



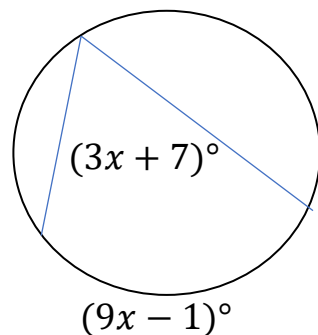
2.  $y = 11.25$



3.  $x = 30^\circ$



4.  $x = 5$



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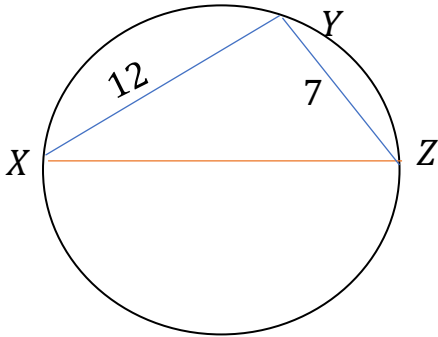
## Overview of Problems



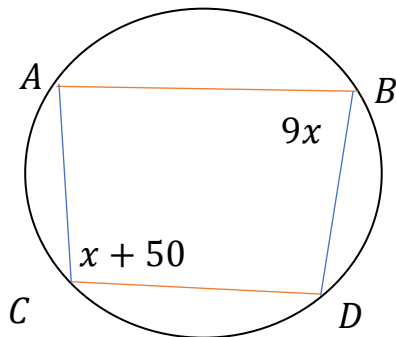
### Example Set: B- ANSWER KEY

Answer the following questions:

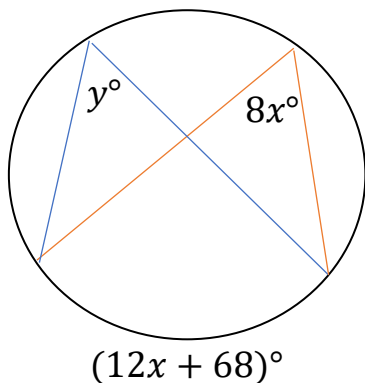
1.  $\overline{XZ}$  is a diameter. Find the Radius. **6.94**



2.  $ABCD$  is a quadrilateral. Find the value of  $x$ .  **$x = 13$**



3. Find the value of  $x$  and  $y$   **$x = 17$   $y = 136$**



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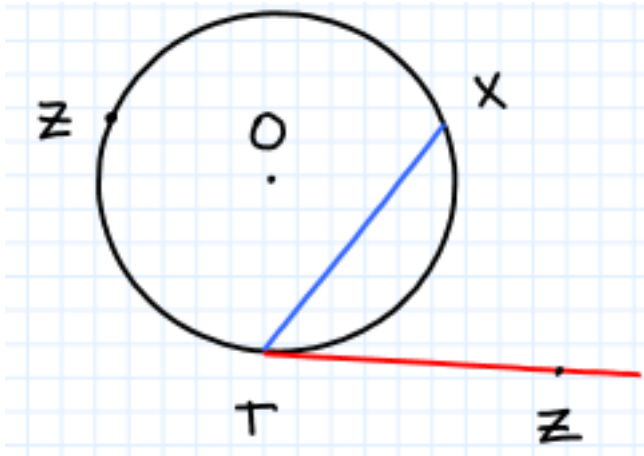


## Overview of Problems

### Example Set: C-ANSWER KEY

Answer the following questions:

1.  $m\widehat{XZT} = 260^\circ$ .  $TZ$  is tangent to circle  $O$ .  
Find  $m\angle XTZ$   $50^\circ$



2. Find the value of  $x$  and  $y$ .  $x = 40^\circ$   $y = 40^\circ$

