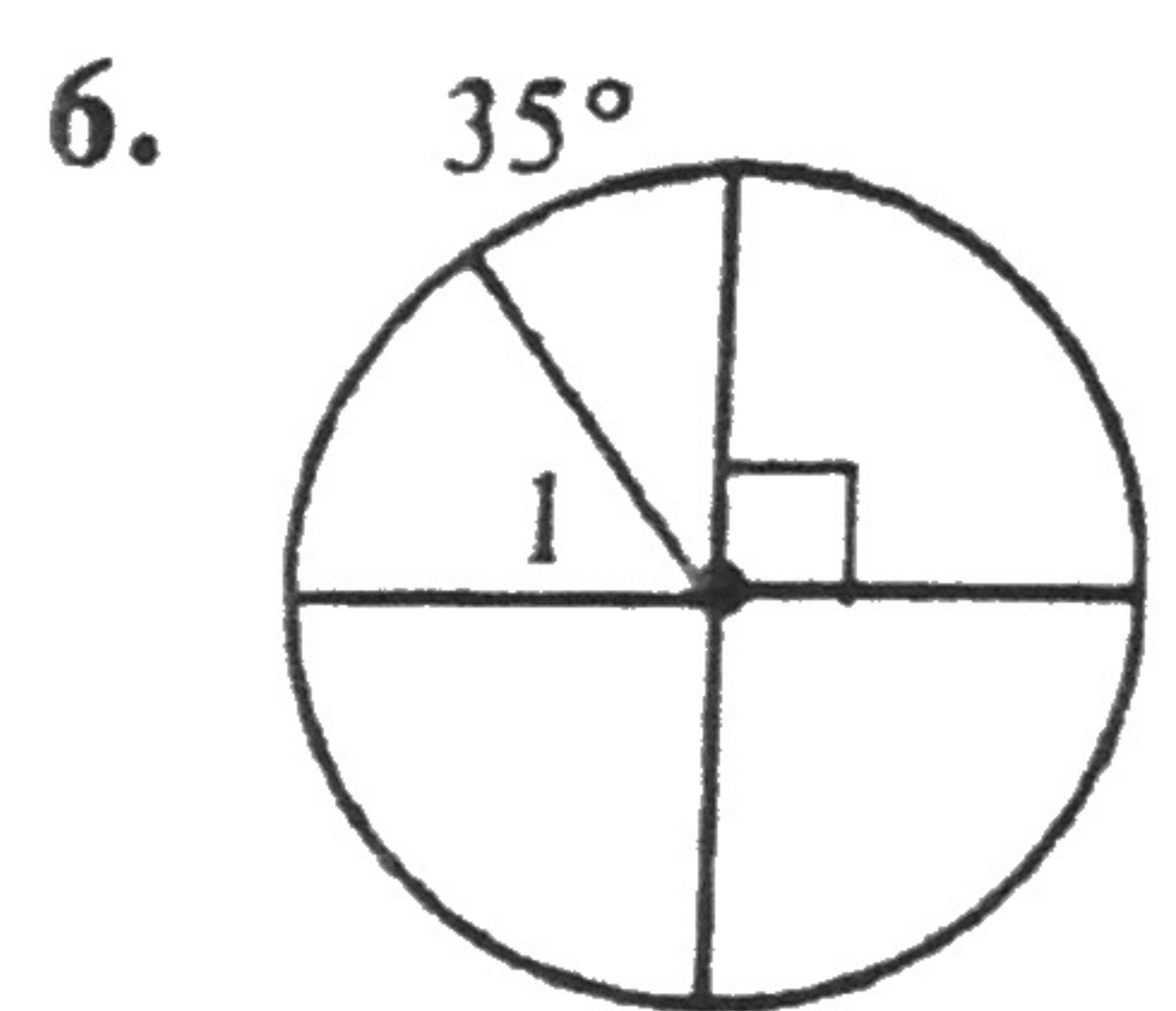
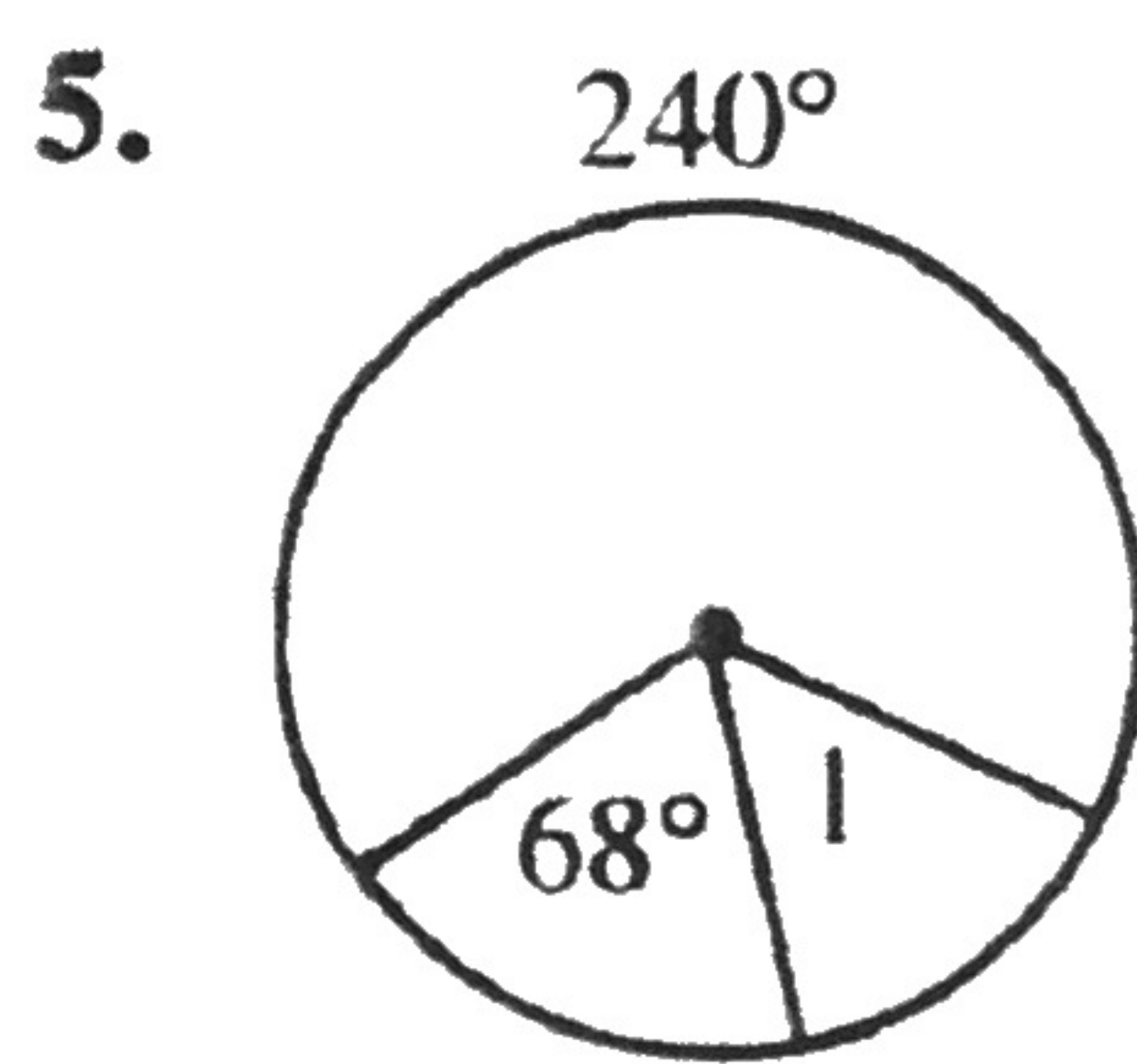
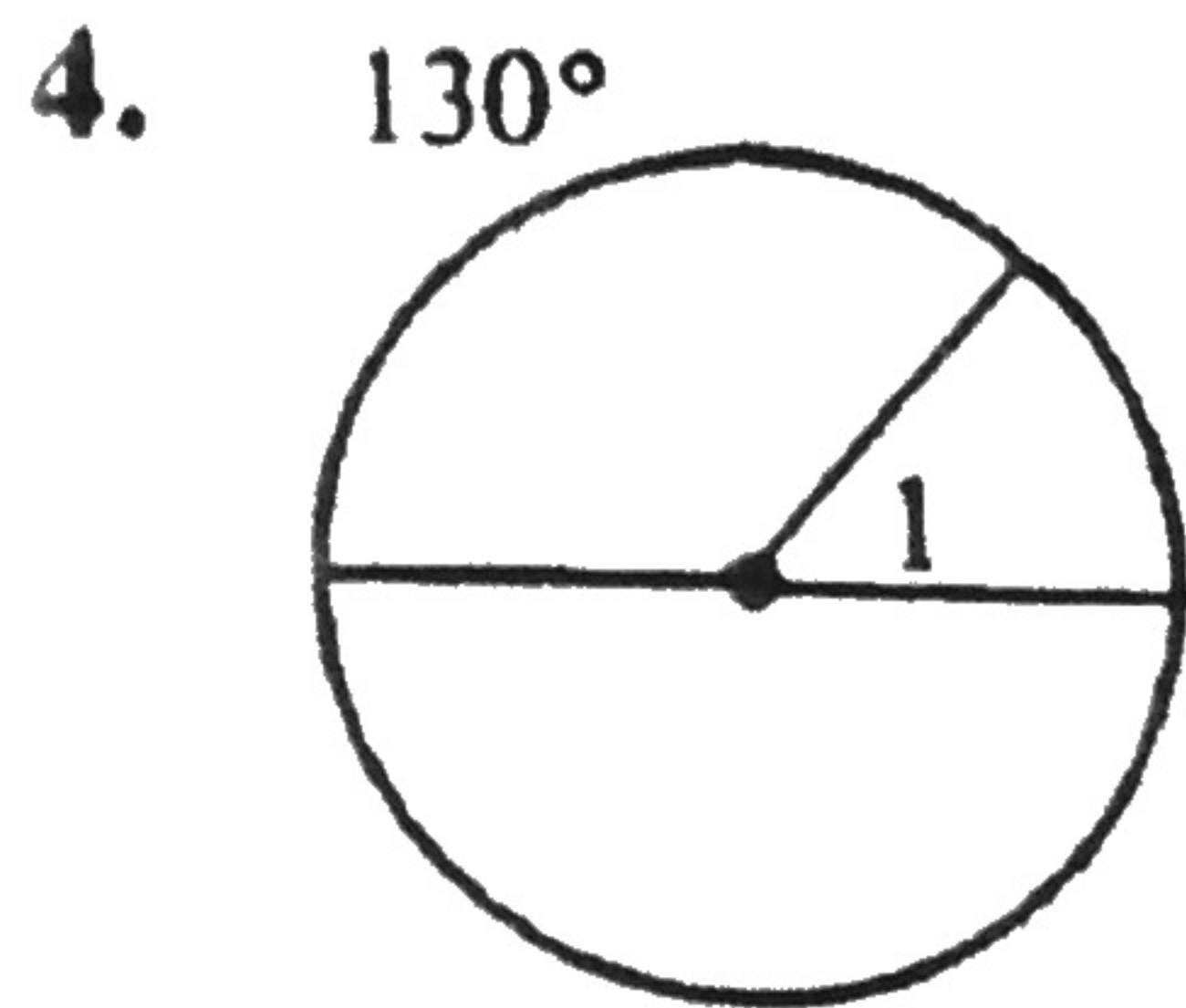
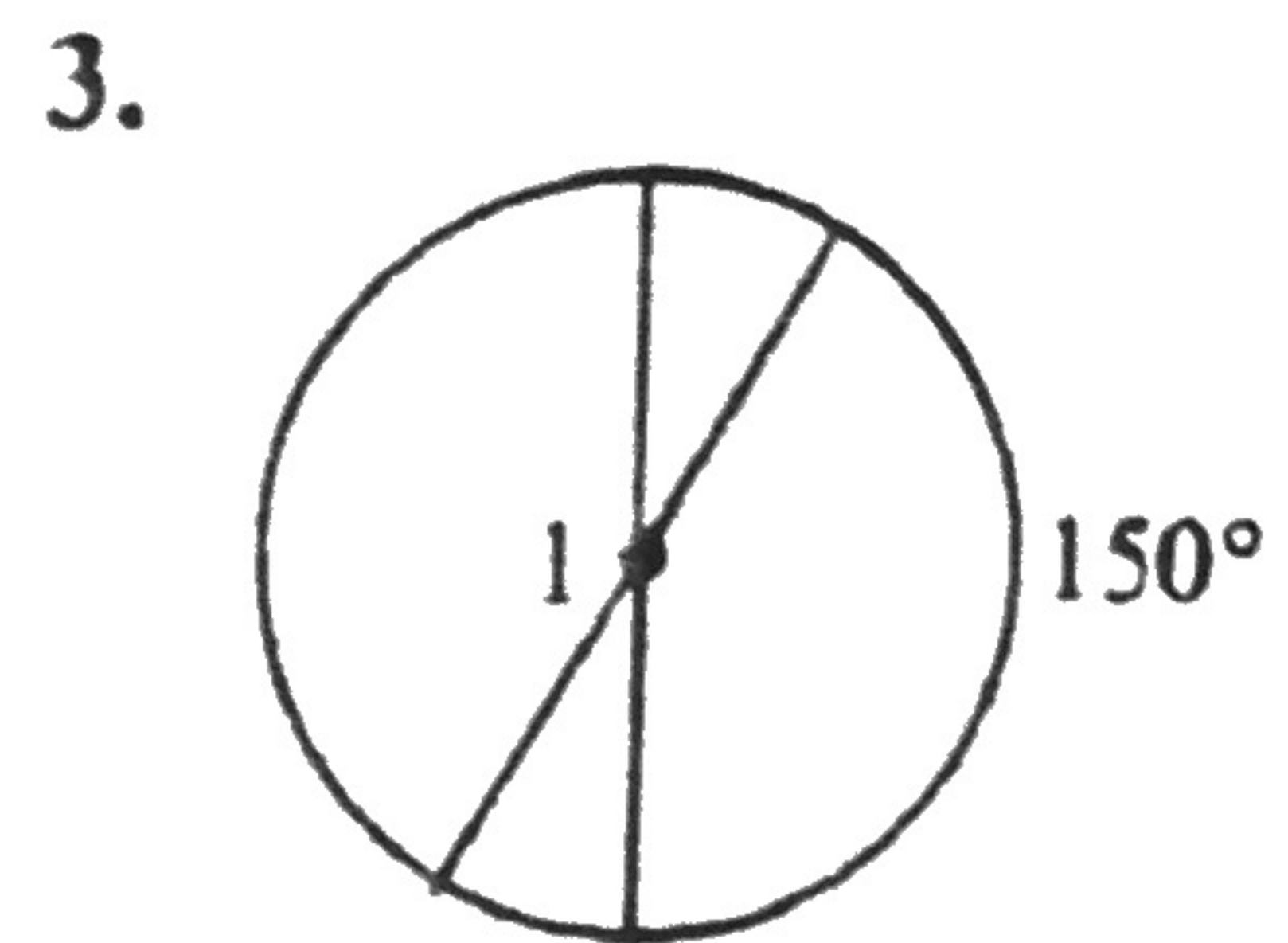
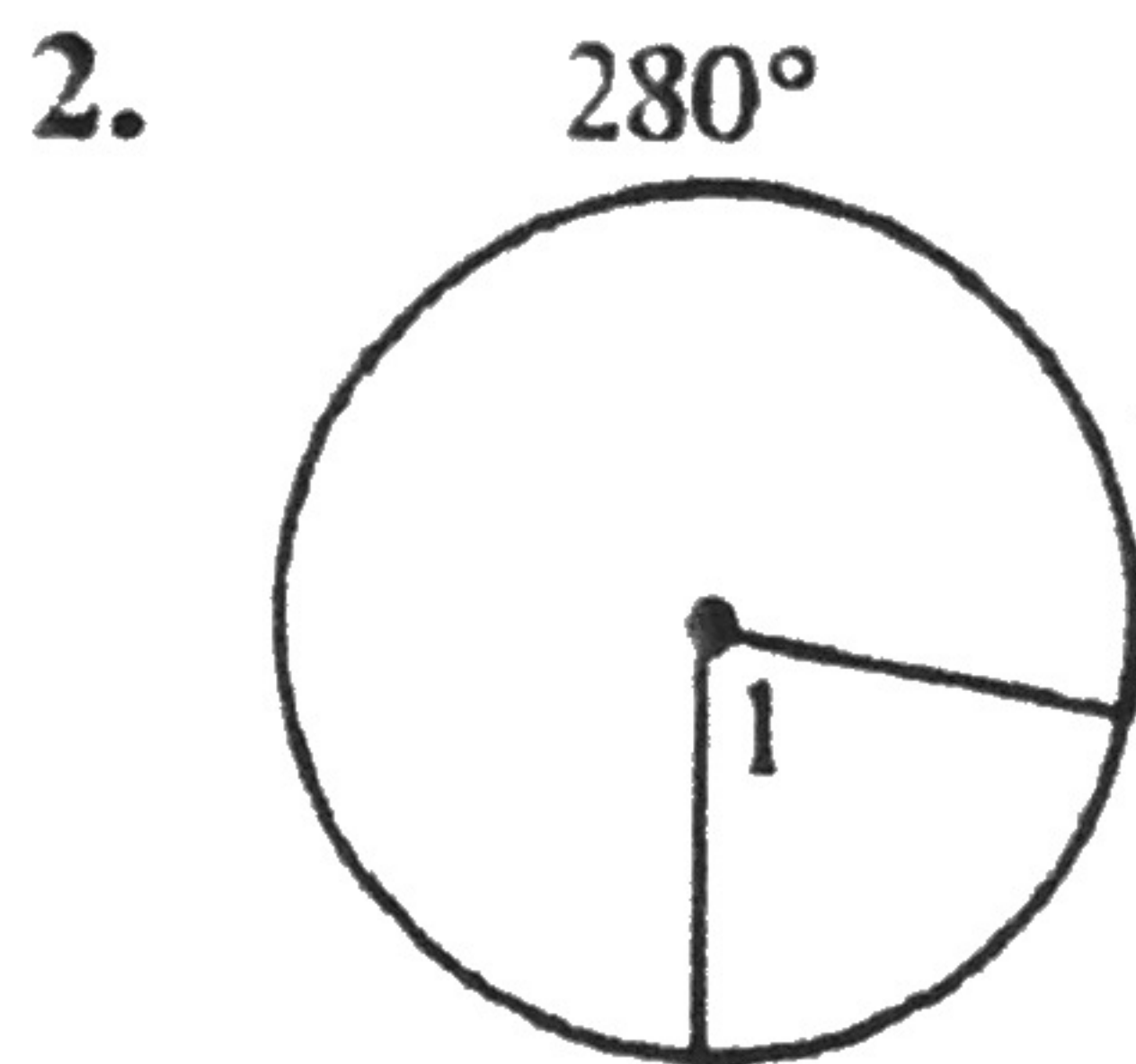
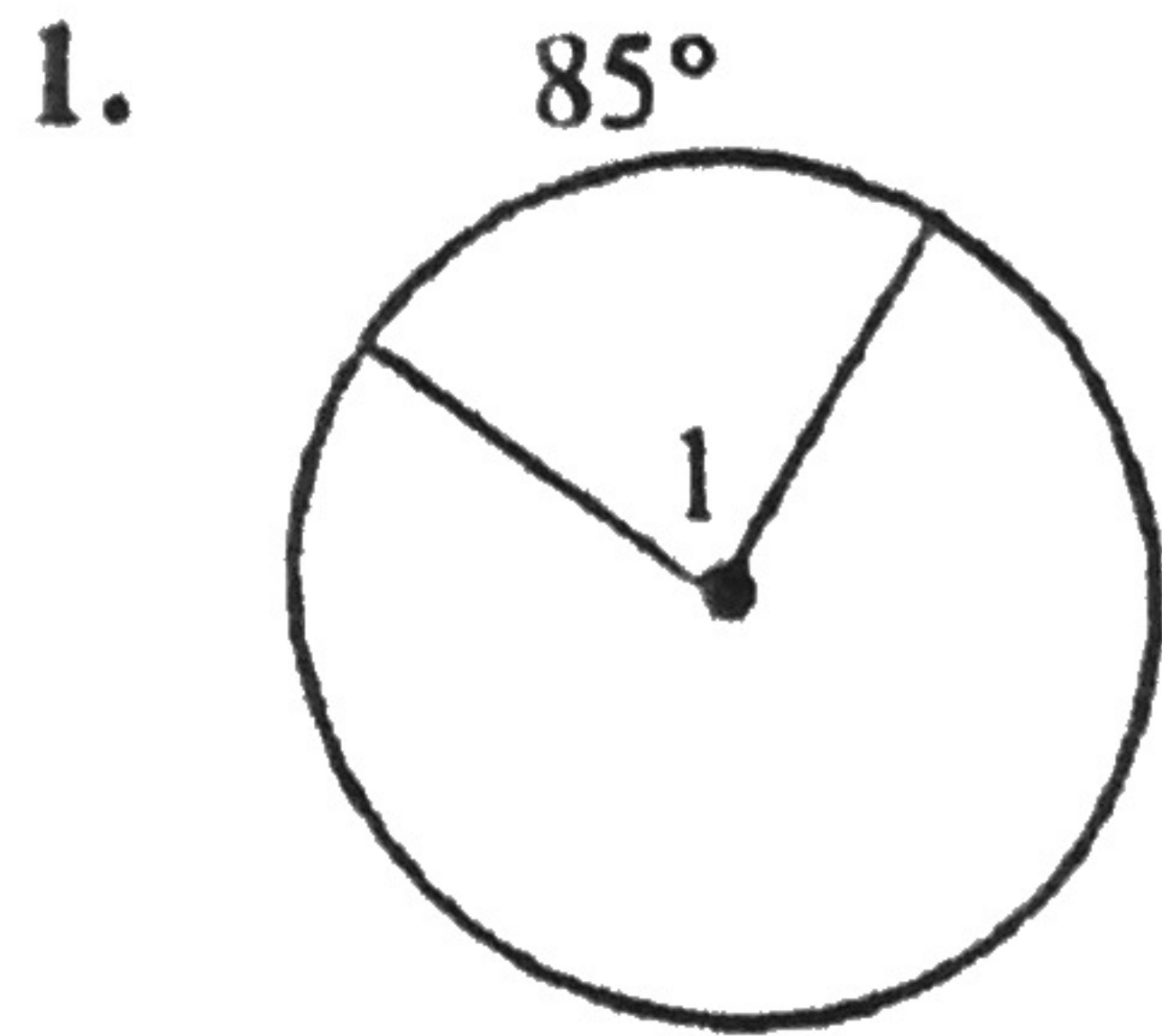


Central Angles and Arc Measure Review

Find the measure of central $\angle 1$.



7. At 11 o'clock the hands of a clock form an angle of ---° .

8. The hands of a clock form a 120° angle at --- o'clock and at --- o'clock.

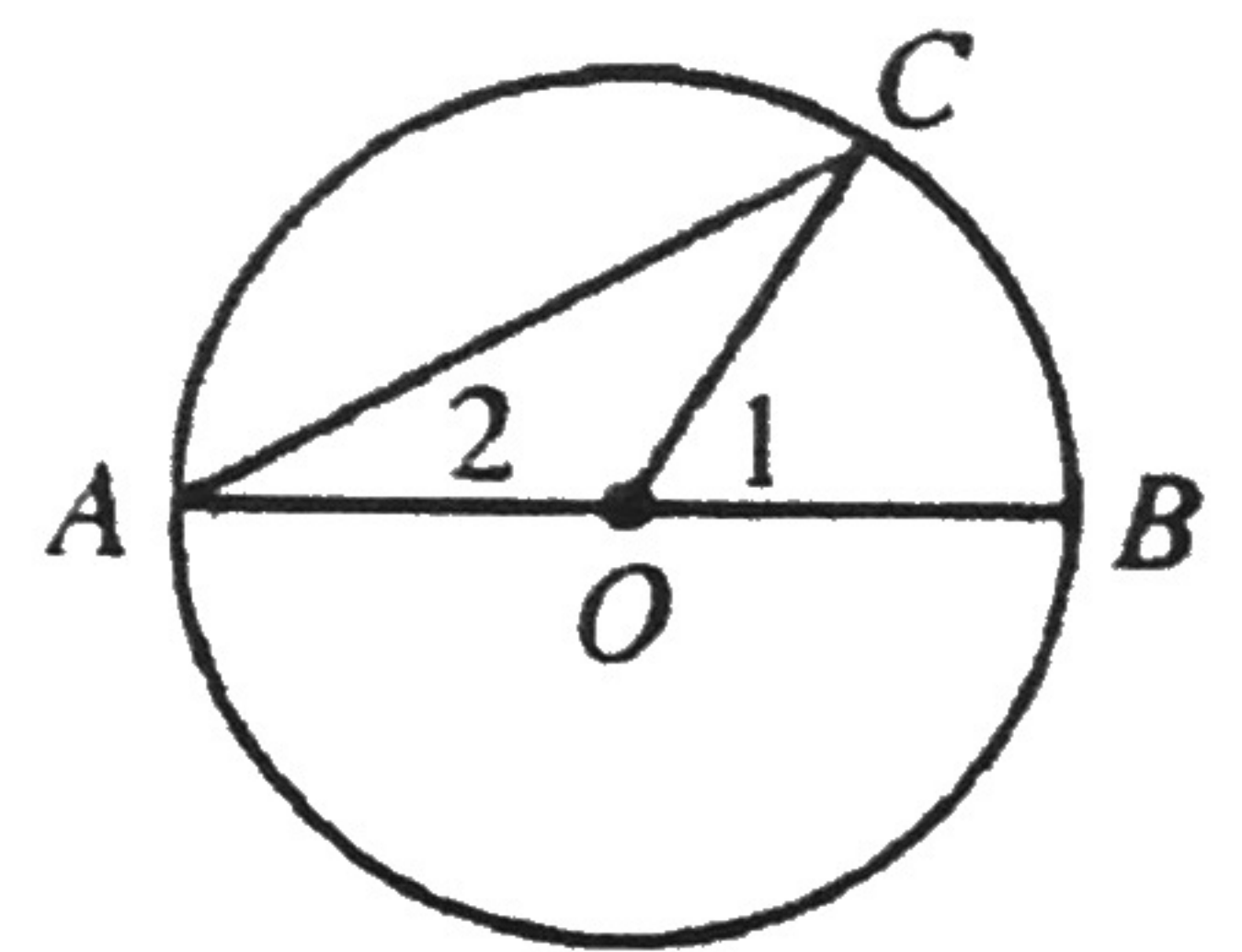
9. a. Draw a circle. Place points A , B , and C on it in such positions that $m\widehat{AB} + m\widehat{BC}$ does not equal $m\widehat{AC}$.

b. Does your example in part (a) contradict Postulate 16?

Complete the tables in Exercises 10 and 11.

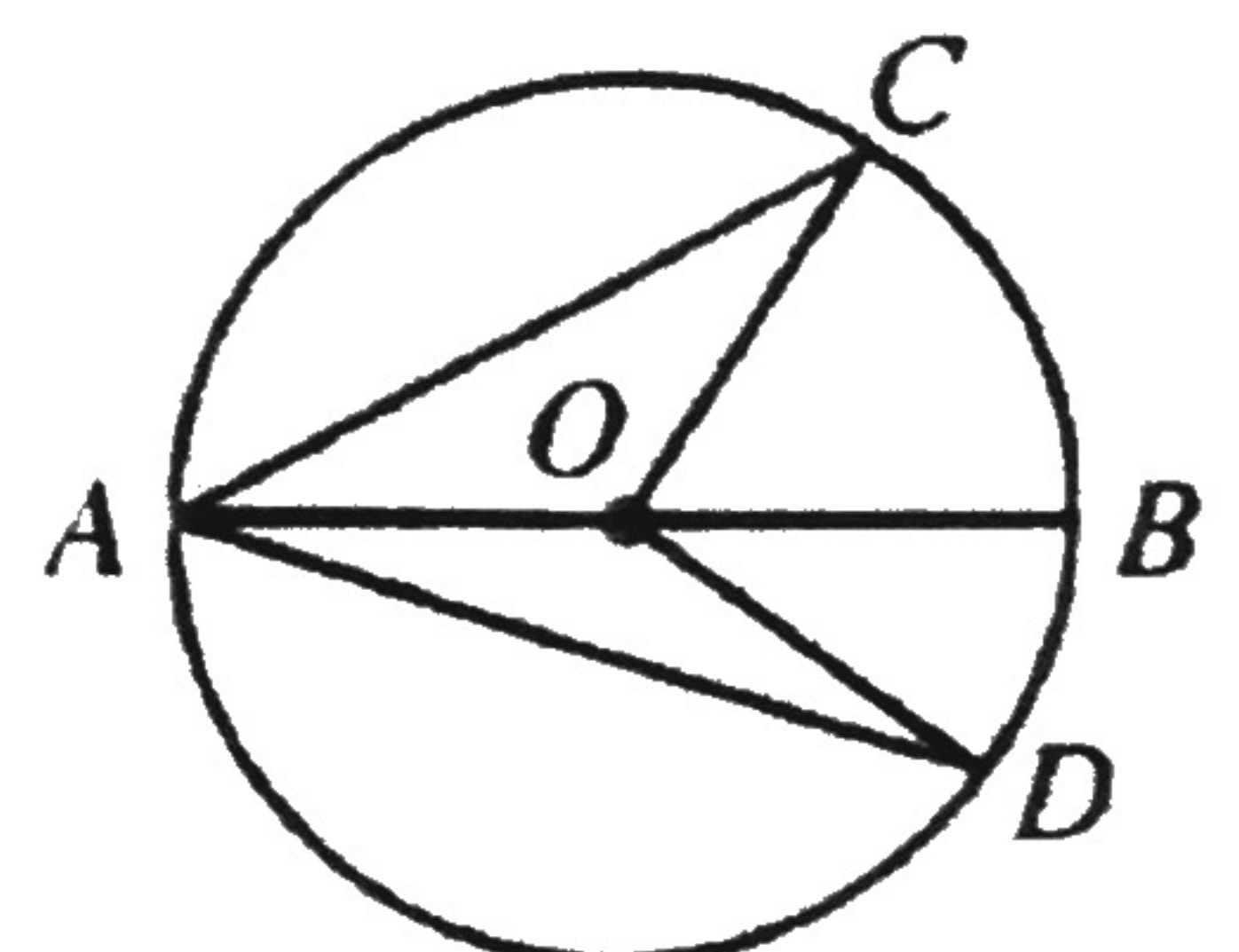
10.

$m\widehat{CB}$	60	70			
$m\angle 1$			56		
$m\angle 2$				25	x



11.

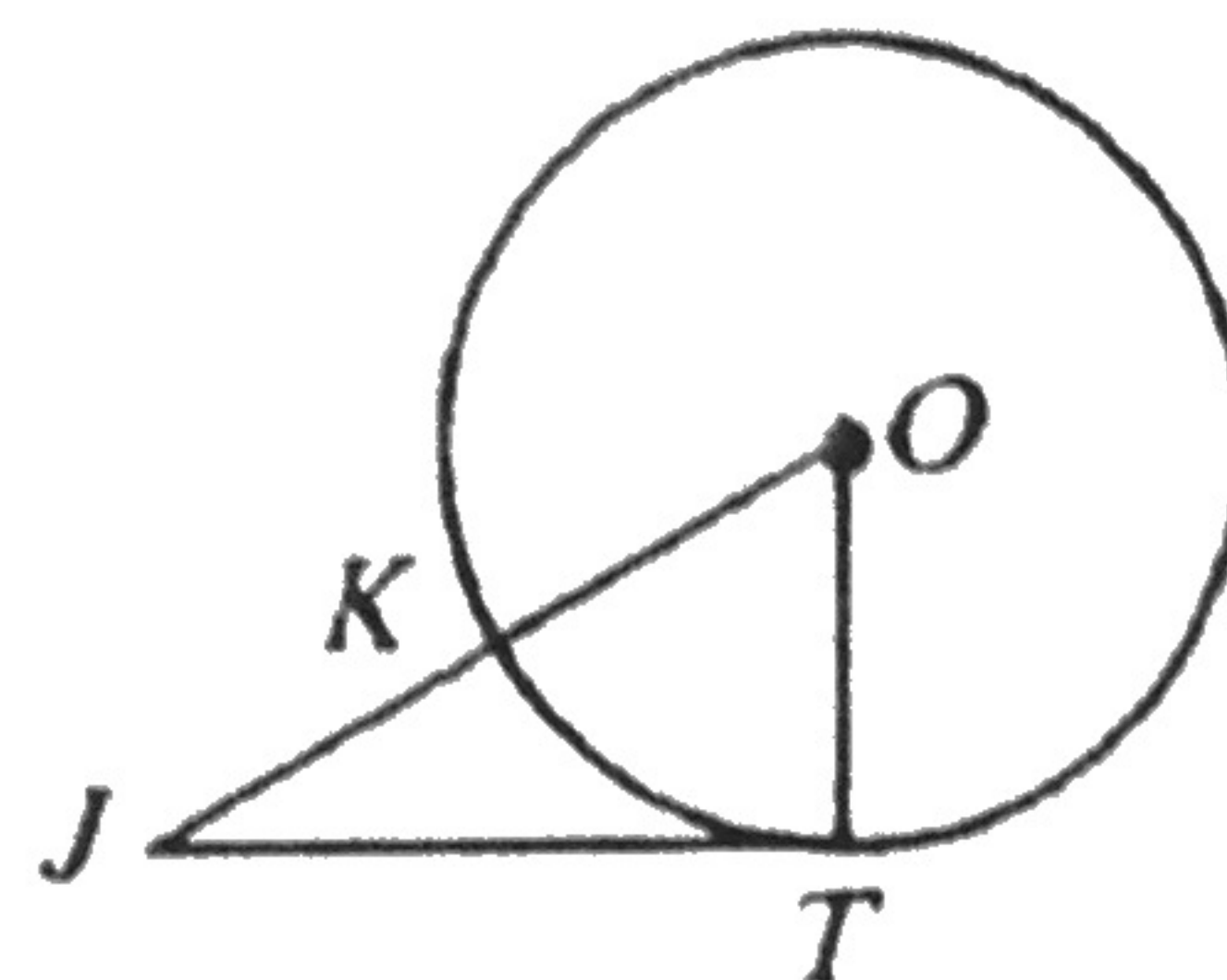
$m\widehat{CB}$	70	60	66	60	p
$m\widehat{BD}$	30	28			q
$m\angle COD$			100		
$m\angle CAD$				52	



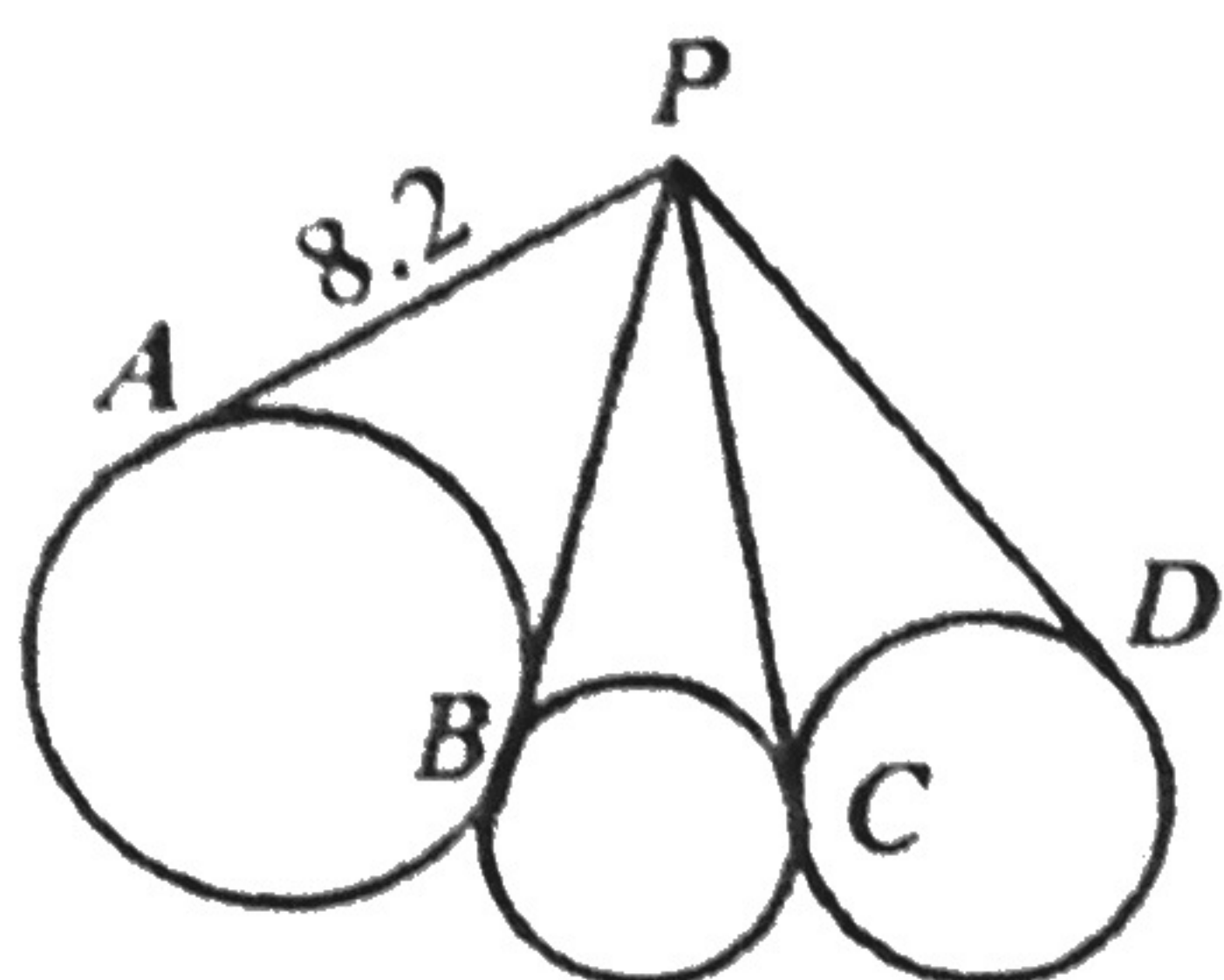
Tangent Review

\overline{JT} is tangent to $\odot O$ at T . Complete.

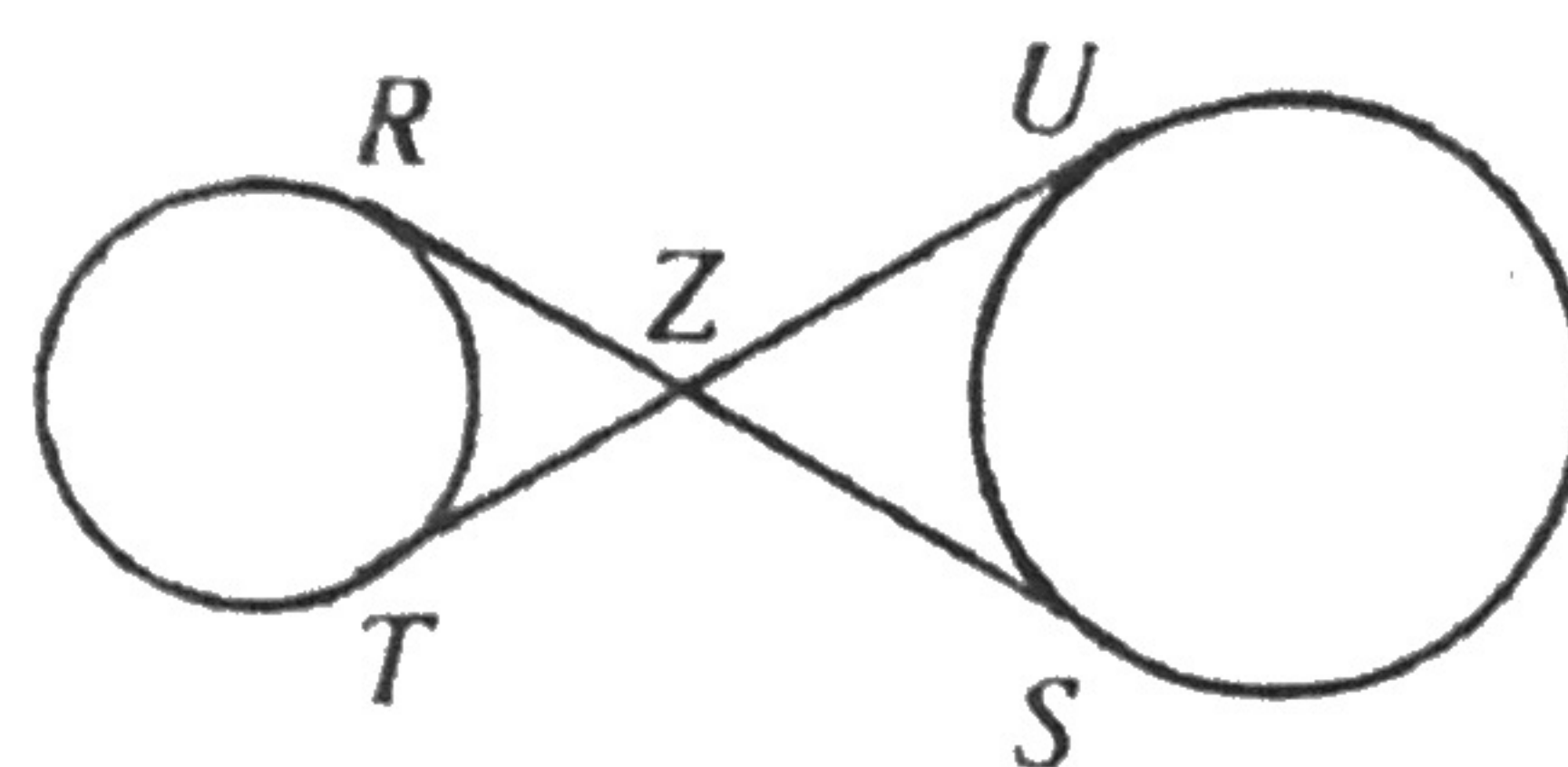
1. If $OT = 6$ and $JO = 10$, then $JT = \underline{\hspace{2cm}}$.
2. If $OT = 6$ and $JT = 10$, then $JO = \underline{\hspace{2cm}}$.
3. If $m\angle TOJ = 60$ and $OT = 6$, then $JO = \underline{\hspace{2cm}}$.
4. If $JK = 9$ and $KO = 8$, then $JT = \underline{\hspace{2cm}}$.



5. The diagram below shows tangent lines and circles. Find PD .

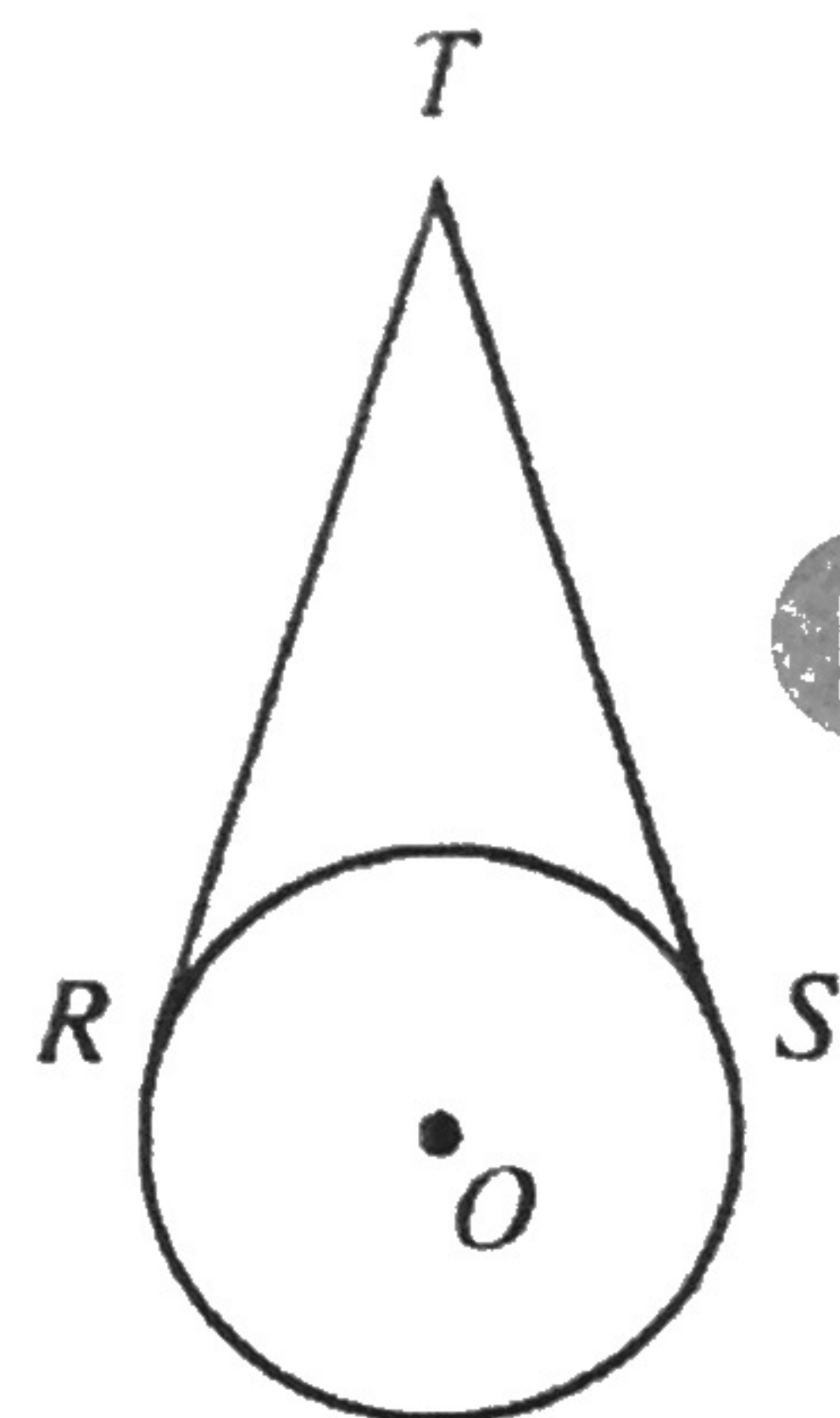


6. \overline{RS} and \overline{TU} are common internal tangents to the circles. If $RZ = 4.7$ and $ZU = 7.3$, find RS and TU .



8. Given: \overline{TR} and \overline{TS} are tangents to $\odot O$ from T ;
 $m\angle RTS = 36$

- a. Copy the diagram. Draw \overline{RS} and find $m\angle TSR$ and $m\angle TRS$.
- b. Draw radii \overline{OS} and \overline{OR} and find $m\angle ORS$ and $m\angle OSR$.
- c. Find $m\angle ROS$.
- d. Does your result in part (c) support one of your conclusions about angles in Classroom Exercise 5? Explain.



16. \overline{SR} is tangent to $\odot P$ and $\odot Q$.
 $QT = 6$; $TR = 8$; $PR = 30$.
 $PQ = \underline{\hspace{2cm}}$; $PS = \underline{\hspace{2cm}}$; $ST = \underline{\hspace{2cm}}$.

17. \overline{JK} is tangent to $\odot P$ and $\odot Q$.
 $JK = \underline{\hspace{2cm}}$ (Hint: What kind of quadrilateral is $JPQK$?)

