

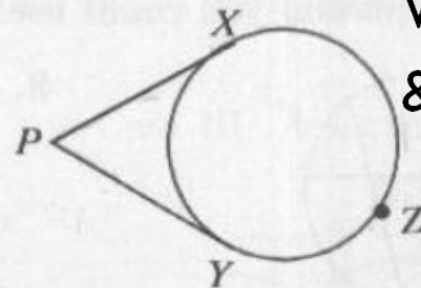
In Exercises 18–21  $\overline{PX}$  and  $\overline{PY}$  are tangents.

18. If  $m\widehat{XZY} = 250$ , then  $m\angle P = \underline{\quad?}$ .

19. If  $m\widehat{XY} = 90$ , then  $m\angle P = \underline{\quad?}$ .

20. If  $m\widehat{XY} = t$ , then  $m\widehat{XZY} = \underline{\quad?}$  and  
 $m\angle P = \underline{\quad?}$  in terms of  $t$ .

21. If  $m\angle P = 65$ , then  $m\widehat{XY} = \underline{\quad?}$ .



22. A secant and a tangent to a circle intersect in a  $42^\circ$  angle. The two arcs of the circle intercepted by the secant and tangent have measures in a 7:3 ratio. Find the measure of the third arc.

23. A quadrilateral circumscribed about a circle has angles of  $80^\circ$ ,  $90^\circ$ ,  $94^\circ$ , and  $96^\circ$ . Find the measures of the four nonoverlapping arcs determined by the points of tangency.

P360 18-23

WS inscribed angles  
& Other angles

