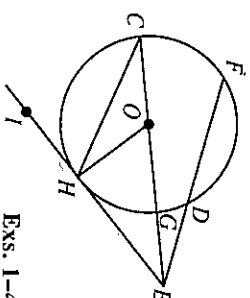


Circles

For use after Chapter 9

\vec{EH} is tangent to $\odot O$. Complete.

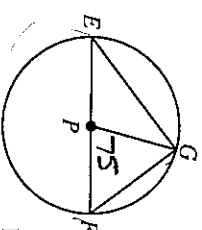
- $m\angle OHI = \underline{90}$
- If $m\widehat{CH} = 130$, then $m\angle CHI = \underline{65}$.
- If $m\widehat{CH} = 120$, then $m\angle CEH = \underline{30}$. $\frac{1}{2}(120 - 60)$
- If $m\widehat{CF} = 80$ and $m\widehat{DG} = 20$, then $m\angle FEC = \underline{30}$.



Exs. 1-4

In $\odot P$, $m\angle FPG = 75$. Complete.

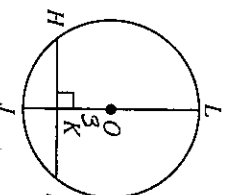
- $m\widehat{FG} = \underline{75}$
- $m\widehat{GE} = \underline{105}$
- $m\widehat{EGF} = \underline{180}$
- $m\widehat{EFG} = \underline{255}$
 $180 + 75$



Exs. 5-8

In $\odot O$, $\overline{OJ} \perp \overline{HI}$ and $OK = 3$. Complete.

- If $HI = 8$, then $HK = \underline{4}$.
- If $KJ = 2$, then $LJ = \underline{10}$.
- If $m\widehat{HI} = 70$, then $m\widehat{HJ} = \underline{30}$.



Exs. 9-11

Chords, secants, and tangents are shown. Find the indicated values.

- $x = \underline{5\sqrt{3}}$
- $x = \underline{68}$
- $x = \underline{6D}$
- $x = \underline{95}$
- $x = \underline{65}$; $y = \underline{115}$
- $x = \underline{95}$
- $x = \underline{7D}$
- $x = \underline{9\sqrt{21}}$
- $x = \underline{14.5}$