Section 10.5
p. 476: $13,15,24,25,27,33$
\# 13


$$
\begin{aligned}
x=\frac{85+25}{2} \quad \triangle \text { ABD } & =180-55^{\circ} \\
& =125^{\circ}
\end{aligned}
$$

\#15 A circle is divided unto 3 arcs in a ratio of $3: 4: 5$. A tangent-chord angle intercepts the largest of 3 arcs. find the measure of the tangent-chord angle


$$
\begin{aligned}
3 x+4 x+5 x & =360 \\
12 x & =360 \\
x & =30
\end{aligned}
$$

\#24


$$
x+y=178
$$

$$
\begin{aligned}
& \frac{x+y}{2}=89 \\
& x+y=178 \\
& \frac{x-y}{2}=15 \\
& x-y=30
\end{aligned}
$$

\#25


$$
\begin{aligned}
\frac{x+87}{2} & =56 \\
x+87 & =112 \\
x & =25
\end{aligned}
$$

\#27 A secant-secant angle intercepts arcs that are $\frac{3}{5}$ and $\frac{3}{8}$ of the circle. Ut a chord-chord angle and its vertical angle intercept the same arcs, what is the measure of the chord-chord angle?

$$
\begin{array}{ll}
\frac{3}{5}(360)=216
\end{array}
$$

\#33


