

Answer Key

Lesson 10.5

Challenge Practice

1. 42.5°

2. $m\angle APD = \frac{1}{2}(m\widehat{AD} + m\widehat{BC})$ and $m\angle CPB = \frac{1}{2}(m\widehat{BC} + m\widehat{AD})$ Thus, $m\angle APD = m\angle CPB$. Therefore, $m\widehat{AD} = m\widehat{CB}$. **3.** $2\sqrt{5}$ **4.** 12°