5. Find the measure of each arc angle or arc that is labeled with a letter:

a. 

b. 

c. 

d. 

e. 

6. Find the measure of each angle or arc that is labeled with a letter:

a. 

b. 

c. 

d. 

e. 
7. Find $m\angle AXB$ and $m\angle Y$

8. Find $m\angle R$

9. Find $mCD$
10. Find $\angle SR$

11. Find $\angle XZ$

12. Find $\angle P$
13. Find $m\angle AED$

![Diagram of a circle with points A, B, C, D, and E, with angles 85° and 25°.]

14. Given $\odot E$ and the measures shown, find $mWZ$

![Diagram of a circle with points X, Y, Z, P, E, and W, with angles 120°, 50°, and 120°.]

15. A circle is divided into three arcs in the ratio of 3:4:5. A tangent-chord angle intercepts the largest of the three arcs. Find the measure of the tangent-chord angle.
16. An inscribed angle intercepts an arc that is \( \frac{1}{9} \) of the circle. Find the measure of the inscribed angle.

22. Given circles concentric at O, AB tangent to the inner circle, and BC = 84°, find the measures of \( \angle A \), DE, and DF.

23. \( m\angle AEB = 82° \). Find \( m\overline{AD} \).

24.

Find $m\overset{\frown}{AE}$ and $m\overset{\frown}{BD}$

25.

Find $m\overset{\frown}{AB}$

26.

Find $m\overset{\frown}{AB}$
27. A secant-secant \( \angle \) intercepts arcs that are \( \frac{3}{5} \) and \( \frac{3}{8} \) of the circle. If a chord-chord \( \angle \) and its vertical angle intercept the same arcs, what is the measure of the chord-chord angle?

28. \( \triangle ABC \) is inscribed in a circle (all sides are chords), \( AB = 12 \), \( AC = 6 \), and \( BC = 6\sqrt{3} \). Find \( \widehat{BC} \).