

12-3 Standardized Test Prep

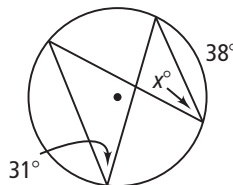
Inscribed Angles

Multiple Choice

For Exercises 1–6, choose the correct letter.

1. What is the value of x ?

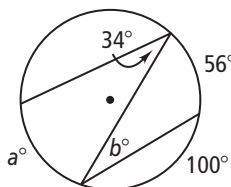
- (A) 19 (C) 38
 (B) 31 (D) 62



For Exercises 2–3, use the diagram at the right.

2. What is the value of a ?

- (F) 34 (H) 68
 (G) 56 (I) 146

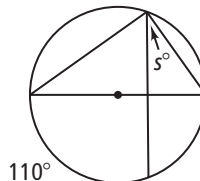


3. What is the value of b ?

- (A) 28 (C) 56
 (B) 34 (D) 112

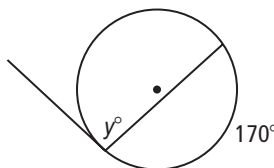
4. What is the value of s ?

- (F) 35 (H) 70
 (G) 55 (I) 90



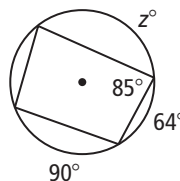
5. What is the value of y if the segment outside the circle is tangent to the circle?

- (A) 85 (C) 190
 (B) 95 (D) cannot determine



6. What is the value of z ?

- (F) 77 (H) 126
 (G) 95 (I) 154



Extended Response

7. A student inscribes quadrilateral $QRST$ in $\odot D$ so that $m\widehat{QR} = 86$ and $m\angle R = 93$. What is the measure of \widehat{RS} ? Draw a diagram and explain the steps you took to find the answer.