

12-4 Standardized Test Prep

Angle Measures and Segment Lengths

Multiple Choice

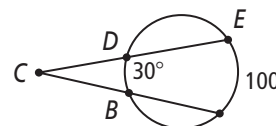
For Exercises 1–6, choose the correct letter.

1. Which of the following statements is false?

- (A) Every chord is part of a secant. (C) Every chord is a diameter.
 (B) Every diameter is part of a secant. (D) Every diameter is a chord.

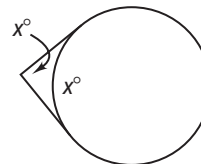
2. In the figure at the right, what is $m\angle C$?

- (F) 15 (H) 50
 (G) 35 (I) 65



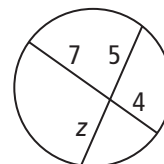
3. In the figure at the right, what is the value of x ?

- (A) 45 (C) 75
 (B) 60 (D) 90



4. In the figure at the right, what is the value of z ?

- (F) 2.9 (H) 6
 (G) 5.6 (I) 8.75

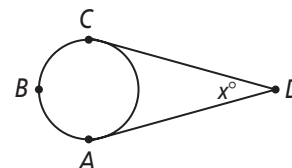


5. An equilateral triangle with sides of length 6 is inscribed in a circle. What is the diameter of the circle?

- (A) 5.2 (B) 6 (C) 6.9 (D) 7.5

6. In the figure at the right, what is $m\widehat{ABC}$ in terms of x ?

- (F) $180 + x$ (H) $2(180 + x)$
 (G) $180 - x$ (I) $360 - x$



Short Response

7. Use $\odot O$ to prove that $\triangle AED \sim \triangle BEC$.

