

12-1 Standardized Test Prep

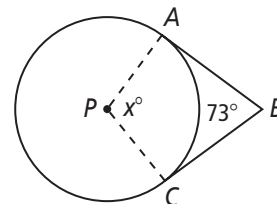
Tangent Lines

Multiple Choice

For Exercises 1–5, choose the correct letter.

1. \overline{AB} and \overline{BC} are tangents to $\odot P$. What is the value of x ?

- (A) 73 (C) 117
(B) 107 (D) 146

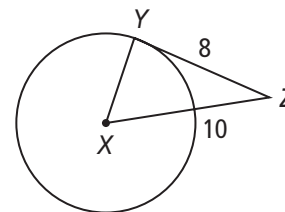


2. Earth's radius is about 4000 mi. To the nearest mile, what is the distance a person can see on a clear day from an airplane 5 mi above Earth?

- (F) 63 mi (G) 200 mi (H) 4000 mi (I) 5660 mi

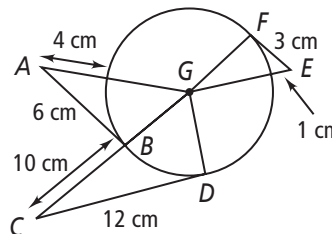
3. \overline{YZ} is a tangent to $\odot X$, and X is the center of the circle. What is the length of the radius of the circle?

- (A) 4 (C) 12
(B) 6 (D) 12.8



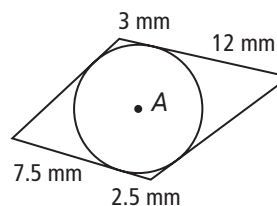
4. The radius of $\odot G$ is 4 cm. Which is a tangent of $\odot G$?

- (F) \overline{AB} (H) \overline{BF}
(G) \overline{CD} (I) \overline{FE}



5. $\odot A$ is inscribed in a quadrilateral. What is the perimeter of the quadrilateral?

- (A) 25 mm (C) 60 mm
(B) 50 mm (D) 150 mm



Short Response

6. **Given:** \overline{GI} is a tangent to $\odot J$.

Prove: $\triangle FGH \cong \triangle FIH$

