S. SECRETARIA

Problem Solving

Lines That Intersect Circles

1. The cruising altitude of a commercial airplane is about 9000 meters. Use the diagram to find AB, the distance from an airplane at cruising altitude to Earth's horizon. Round to the nearest kilometer.



2. In the figure, segments that appear to be tangent are tangent. Find QS.



3. The area of OH is 100x, and HF = 26 centimeters. What is the perimeter of quadrilateral EFGH?



4. IH, IK, and KL are tangent to OA. What



Choose the best answer.

- 5. A teardrop-shaped roller coaster loop is a section of a spiral in which the radius is constantly changing. The radius at the bottom of the loop is much larger than the radius at the top of the loop, as shown in the figure. Which is a true statement?
 - A OK and OM have two points of tangency.
 - B OK, OL, and OM have one point of tangency.
 - C OL is internally tangent to OK and OM.
 - D OL is externally tangent to OK and OM.



6. OG has center (2, 5) and radius 3. OH has center (2, 0). If the circles are tangent, which line could be tangent to both circles?

$$Hy=2$$

- 7. The Hubble Space Telescope orbits 353 miles above Earth, and Earth's radius is about 3960 miles. Which is closest to the distance from the telescope to Earth's horizon?
 - A. 1634 mi
- C 3976 mi
- B 1709 mi
- D 5855 mi

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Lesson 12 Problem Solving Lines That Intersect Circles:

The Enigmatic Realm of Lesson 12 Problem Solving Lines That Intersect Circles: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Lesson 12 Problem Solving Lines That Intersect Circles** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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