_____ Class _____

Date

12-1 Tangent Lines

Algebra Assume that lines that appear to be tangent are tangent. *O* is the center of each circle. What is the value of *x*?



The circle at the right represents Earth. The radius of the Earth is about 6400 km. Find the distance d that a person can see on a clear day from each of the following heights h above Earth. Round your answer to the nearest tenth of a kilometer.



4. 12 km

5. 20 km



10.6

5.6

In each circle, what is the value of *x* to the nearest tenth?





Determine whether a tangent line is shown in each diagram. Explain.



12.



Tangent Lines

Each polygon circumscribes a circle. What is the perimeter of each polygon?



18. Error Analysis A classmate states that \overline{BC} is tangent to $\bigcirc A$. Explain how to show that your classmate is wrong.

