Geometry Homework – 12-1 and 12-2

Name:

Date:

Block:

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

1) () () (x°) (40°)

3) 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 a height h of 12 km above Earth. Round your answer to the nearest tenth of a kilometer.

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



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



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





7)





12

10)

10

4.5





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

A 67° B 28°

12) The peak of Mt. Everest is about 8850 m (8.850 km) above sea level. About how many kilometers is it from the peak of Mt. Everest to the horizon if the Earth's radius is about 6400 km? Draw a diagram to help you solve the problem.

13) $\bigcirc B$ is inscribed in a triangle, which has a perimeter of 76 in. What is the value of x?



Find the value of *x* to the nearest tenth.





