

Appendix C: Problems for Geocaches

Location: Geocache 1

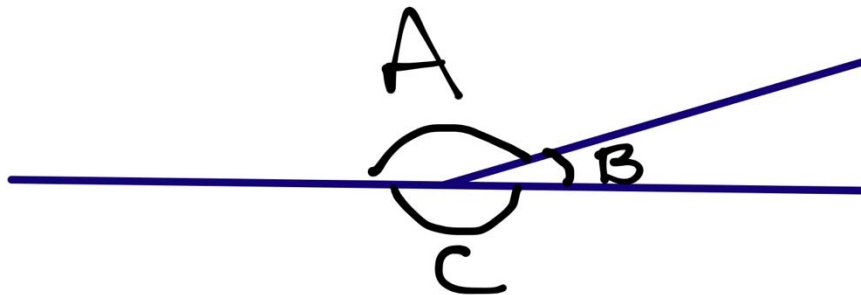
- 1) Two angles are complementary. What is the sum of their angle measures?
- 2) The area of a rectangle is 405 meters. The width of the rectangle is 3 meters. What is its length?

Location: Geocache 2

- 1) Two angles are supplementary. One angle measure is 55 degrees. What is the other angle measure?
- 2) A circle's diameter is 46 meters. What is its circumference? Use 3.14 for pi and round to the nearest meter.

Location: Geocache 3

- 1) Angle A below measures 135 degrees. What is the sum of angles B and C?



- 2) A circle has a circumference of 960.84 meters. What is its radius? Use 3.14 for pi.

Name: _____ Date: _____ Class: _____

Location: Geocache 4

- 1) An angle makes up $\frac{3}{4}$ of a full circle (or 360 degrees). What is the angle measure?

- 2) A certain vertical cross section of a pyramid in Egypt makes a triangle. The area of the cross section is 2,250 square meters, and its height is 30 meters. What is the length of the triangle's base?

Location: Geocache 5

- 1) For any pair of intersecting lines which pass through one another, there are four angles created. What is the sum of these four angles?

- 2) The Baccarat Hotel in New York City was built in the shape of a rectangular prism. The base has a length of 50 meters and a width of 30 meters. The volume of the prism is 277,500 cubic meters. How tall is the building?