Topo Triangulation – 7th / 8th Grade Worksheet

Instructions

You and a friend left to go on a hike today. You have been walking for a while, and now you do not know where you are. You have looked around and taken a few bearings of landmarks you see. Following is what you know:

Clues

A) Your hike started at “East Portal” 4 hours earlier.
B) Realizing that you were lost, you hiked part way up a nearby mountain/hill. You did not hike up to the top, but the top is directly south of you.
C) You can hear a railroad somewhere to the north.
D) You took a bearing of a big body of water at 100 degrees. You think you saw a dam near the water.
E) You see another mountain at 241 degrees.
F) You see a smaller lake at 305 degrees.

1) If someone was looking at you from the first body of water, Clue D, what direction would they have to be looking?

2) Using your compass edge, draw a line from the landmark in the direction you wrote above. Your location is somewhere along that line.

3) Which mountain do you think Clue E is talking about?

4) Using the same method you used for the first line, draw the second line from the mountain/hill in Clue E. Your location is where the lines intersect.

5) Which lake is Clue F talking about?