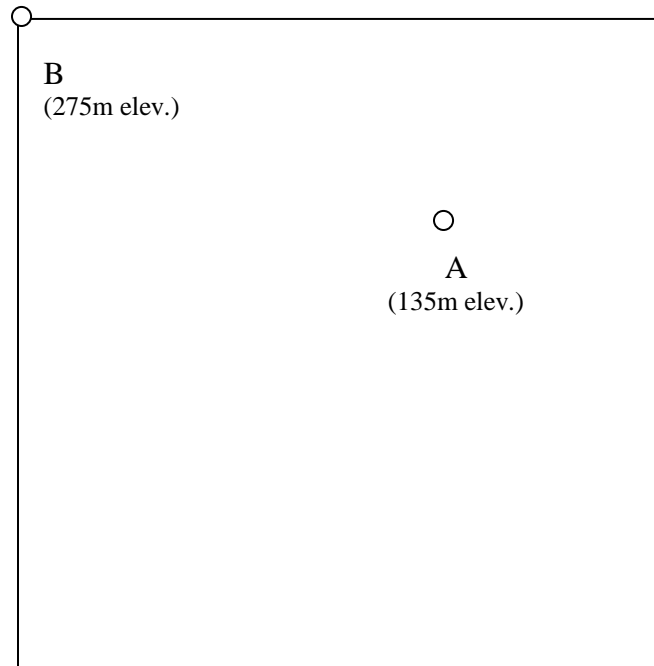


GEOG 226 Practice Questions



- 1) Refer to the map above and interpolate the UTM coordinate (nearest m) for point A. Lines: N = 5,561,000m; S = 5,560,000m; W = 435,000m; E = 436,000m

- 2) Based on the UTM coordinates calculate the distance between the 2 points.

3) What is the scale of the map above?

4) What is the slope in % and in degrees between points A & B?

5) Using the UTM coordinates, calculate the bearing between points A & B?

6) Express $1'' = \frac{1}{2}$ mile as a representative fraction

7) 4 inches on a map corresponds to 3.6 km on the ground. What is the map scale?

8) You have a 1:20,000 map and a photo with an unknown scale. The distance between 2 features is 4.5cm on the map and 3.85 cm on the photo. What is the scale of the photo?

9) Slope distance between two points is 95m; slope is 65%. Determine the HD and elevation change between the two points. What would the "plotting distance" be (nearest 0.1cm) for a 1:5,000 map?

10) What is the scale for a photo with $f = 15\text{cm}$ and $H = 18,000\text{ft}$?

11) Determine the altitude for the plane to obtain 1: 10,000 scale photos with 305mm lens. Assume a ground elevation of 320m.

12) You have a 1:10,000 contour map with a 25m contour interval. You need to plot a trail (grade line) at 10%. Calculate the “contour spacing” you would use to plot the trail.