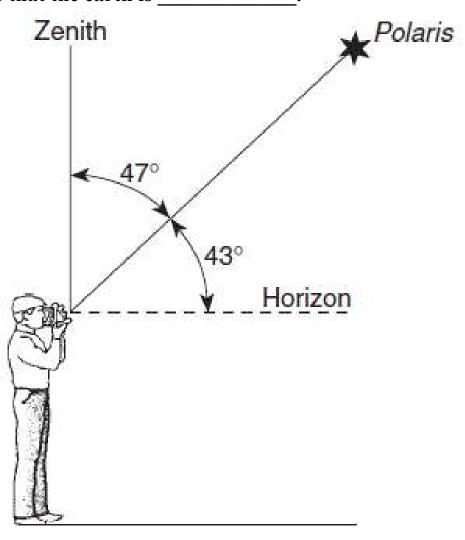
Station 1:

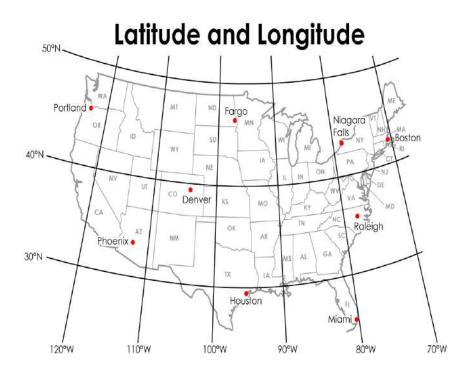
- 1.) Finish the sentence: The altitude of Polaris equals one's , but only in the hemisphere.
- 2.) What is the observer's latitude in the diagram below?
- 3.)List 4 NYS cities in which this observer could be located (use pg. 3 of your ESRT!)
- 4.) Where is the only place on Earth that Polaris is located at the zenith?
- 5.) Where is the only place on Earth that Polaris is located on the horizon?
- 6.) The fact that the altitude of Polaris changes with latitude provides evidence that the earth is .



- 1.) Latitude, Northern
- 2.) 43° N
- 3.) Syracuse, Rochester, Niagara Falls, Utica
- 4.) The North Pole/ 90 °N
- 5.) The equator
- 6.) Round

STATION 2

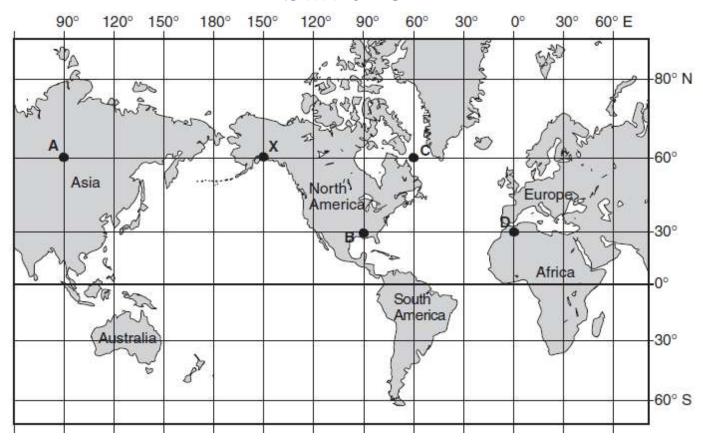
For the following coordinates, determine the correct city



- 1. 33°N latitude, 112°W longitude _____
- 4. 29°N latitude, 95°W longitude
- 2. 35°N latitude, 78°W longitude
- 5. 43°N latitude, 79°W longitude
- 3. 45°N latitude, 122°W longitude ______ 6. 25°N latitude, 80°W longitude _____
- 6. 25°N latitude, 80°W lonaitude
- 7.) Earth Rotates from _____ to _____. (Compass Direction)
- 8.) At which location would the sun set last?
- 9.) At which location would the sun rise first?

- 1.) Phoenix
- 2.) Raleigh
- 3.) Portland
- 4.) Houston
- 5.) Niagara Falls
- 6.) Miami
- 7.) West to East
- 8.) Portland
- 9.) Boston

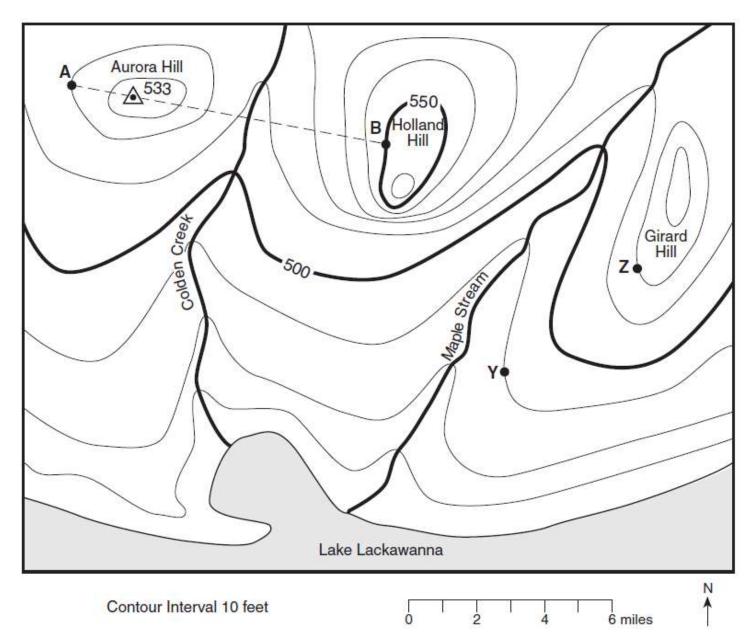
Station 3



- 1.) What is Earth's Rate of Rotation (include units)?
- 2.) A change in 15 degrees _____ (Longitude or latitude) will change one's time by ____ hour(s).
- 3.) If it is 3 p.m at location x, is it later in the day, or earlier in the day at location c?
- 4.) What is the <u>time difference</u>, in hours, between location x and location C?
- 5.) What is the time at location C, when it is 3 p.m. at location X?
- 6.) What time is it at location A when it is 3p.m. at location X?

- 1.) 15 °/hr
- 2.) Longitude, 1 hour
- 3.) Later in the day (traveled east)
- 4.) 6 hours
- 5.) 9 p.m.
- 6.) 7 a.m.

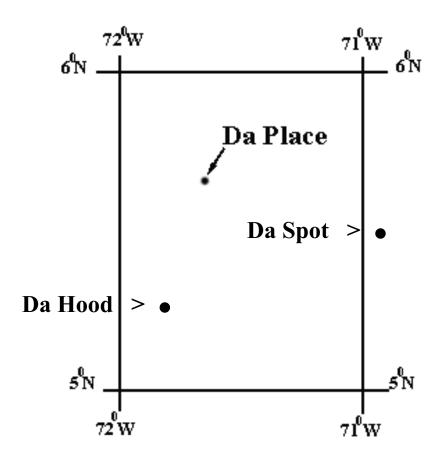
Station 4



- 1.) What is the contour interval on this map?
- 2.) What is the elevation of point Z?
- 3.) What is the maximum elevation of Holland Hill?
- 4.) What is the minimum elevation of Girard Hill?
- 5.) What is the gradient from point Y to Z?
- 6.) What is the elevation at the peak of Aurora Hill?

- 1.) 10 ft
- 2.) 520 ft
- 3.) 569 ft
- 4.) 531 ft.
- 5.) 6.67 ft/mile
 - 6.) 533 ft.

Station 5



For the following locations, estimate the coordinates in both degrees and minutes. Note that 30' tick marks have NOT been draw on this map

- 1. What is the approximate coordinates of Da Place?
- 2. What is the approximate coordinates of Da Spot?
- 3. What is the approximate coordinates of Da Hood?
- 4. What is the most accurate representation of the earth's shape?
- 5. What is the best piece of evidence that proves that earth is round?

1.)5°40' N, 71 °40'W

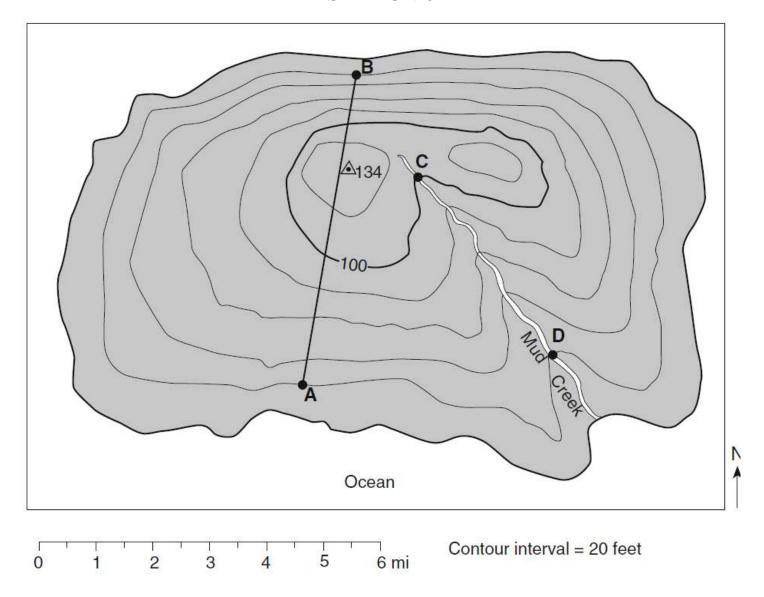
2.)5 °30' N, 70 °55' W

3.)5 ° 15 'N, 71 °45 ' W

4.) A sphere. In a model this is a globe

5.) Satellite images taken from space

STATION 6



- 1.) What is the elevation of the first contour line shown on this map?
- 2.) In which direction is Mud Creek Flowing?
- 3.) Give <u>two pieces</u> of evidence provided by the contour lines that explain the stream flow direction.
- 4.) If you were to draw a general profile along A to B, what would it show?
- 5.) What is a possible elevation at the source of Mud Creek?
- 6.) If this island were a volcano that erupted, and the mountain peak blew off, what type of contour line would be drawn on the map to depict a depression? Write the symbol down.

- 1.) 0 ft.
- 2.) SE/southeast
- 3.) The contour lines bend and make a v which points NW/North West OR the contour lines show that elevation is increasing to the north west, therefore water flows downstream southeast
- 4.) You would start at 20 ft, and gradually climb a hill at 134 ft, then you would descend back down to 20 ft, but at a steeper slope (greater gradient)
- 5.) 101-119 ft
- 6.) A hatchured contour line

