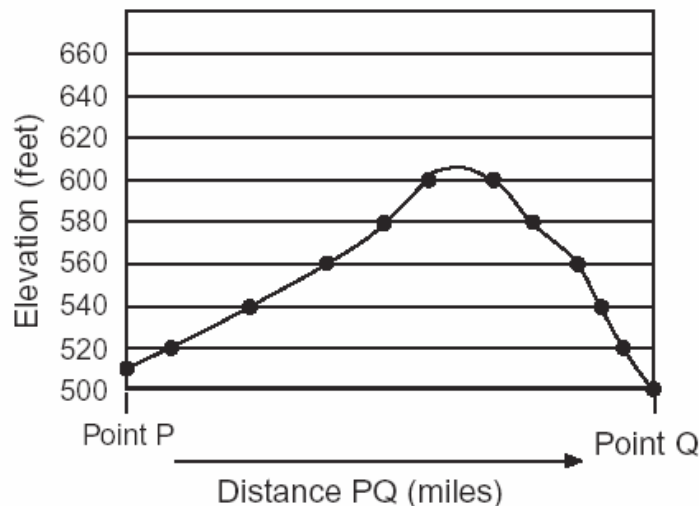


ANSWERS

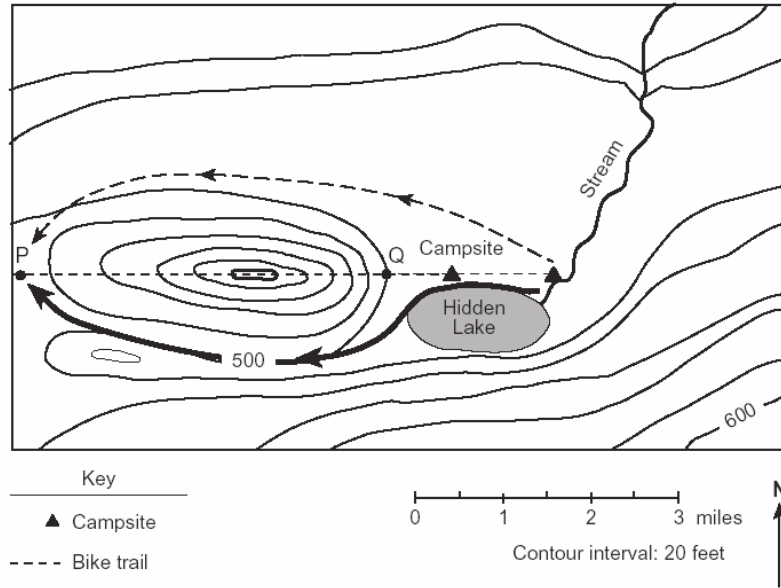
Earth Science Midterm Part 2 Review #2

- Northeast – the Sun is in the SW, so the shadow points in the opposite direction.
 - The shadow will get longer (increase in size). The basic rule is that the higher the Sun, the shorter one's shadow. Since the Sun is setting, the shadow will get longer.
- Around 2:00pm – the Sun is starting to set – it is afternoon
- Location C shows the Sun's path going through the zenith at noon (highest point in sky). The higher the angle of insolation, the higher the intensity. Location C shows the Sun higher than any other of the locations shown.
- Location D is a higher latitude for one of the following reasons:
 - The Sun is lower in the sky than any of the other locations.
 - Polaris is at this location's zenith (this location must be North Pole).
 - Every direction is South which means that this location must be the North Pole.
- The other equinox – September 23rd
- The contour lines are widely spaced or there are a lack of contour lines just north of Hidden Lake.
- The stream flows north.
 - Contour lines bend upstream where they cross a river.
-

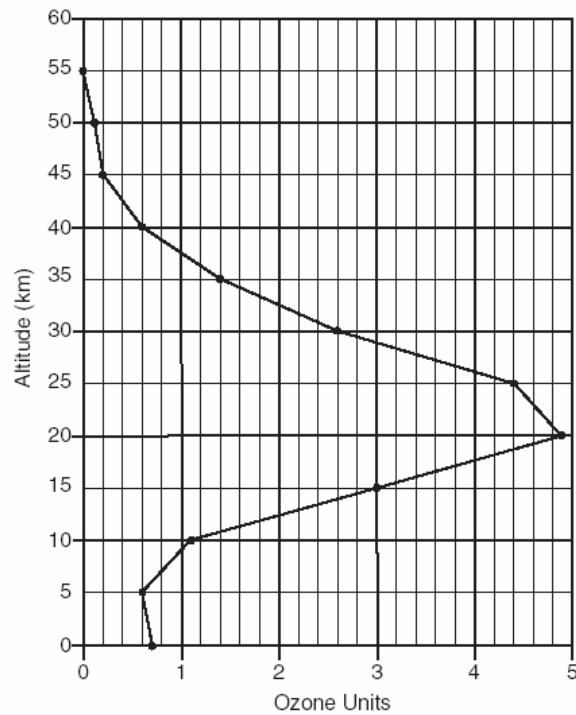


- The students should stretch the rope out straight along the riverbank. This will represent a distance of 10 feet. Then drop one apple in the stream at the beginning of the rope and time how long it takes to get to the other end of the rope. Then use the rate of change formula: $\text{rate} = \frac{\text{change in field value (or distance)}}{\text{time}}$.

10 and 11.



12.



13. Stratosphere – either just know it or use ESRT to determine that 20 km in altitude is in the stratosphere.

14. Insolation (specifically UV rays) are absorbed by ozone.

15. CFC's – chlorofluorocarbons