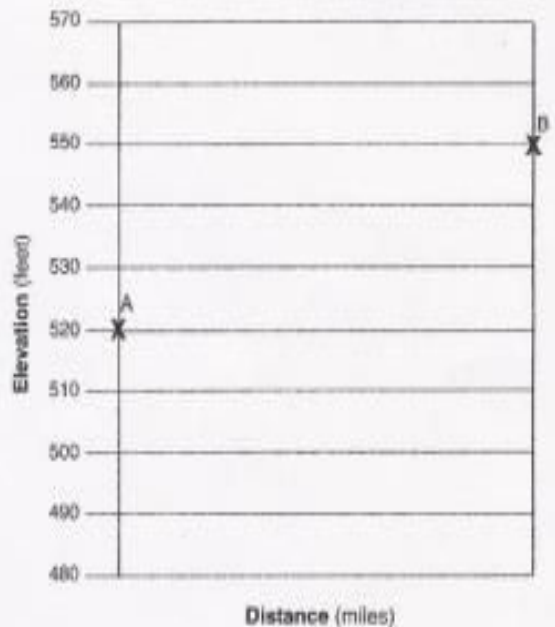
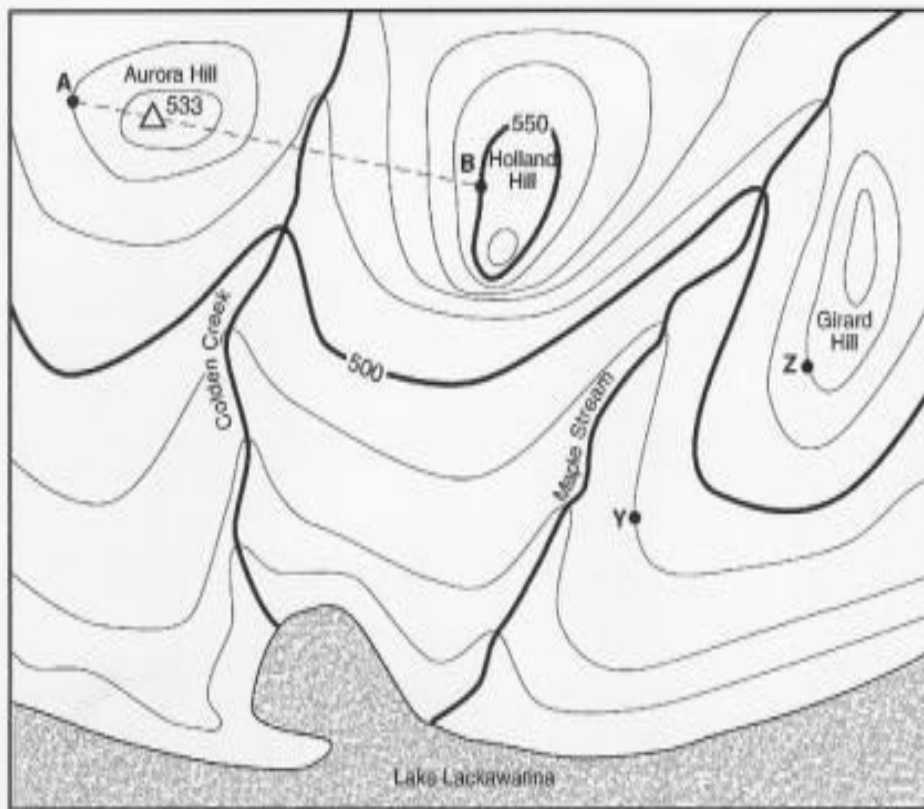


Name \_\_\_\_\_  
Date \_\_\_\_\_

**Earth Science  
Finelli**

Base your answers to questions 1 through 4 on the topographic map below. Points *A*, *B*, *Y*, and *Z* are reference points on the topographic map. The symbol  $\Delta 533$  represents the highest elevation on Aurora Hill.



Contour Interval 10 feet

0 2 4 6 miles



1. State the general compass direction in which Maple Stream is flowing.
2. Calculate the gradient between points *Y* and *Z* on the map, and label the answer with the correct units.
3. Describe the evidence shown on the map that indicates that the southern side of Holland Hill has the steepest slope.
4. On the grid provided, construct a topographic profile from point *A* to point *B* by following the directions below.
  - a Plot the elevation along line *AB* by marking with an *X* each point where a contour line is crossed by line *AB*. Points *A* and *B* have been plotted for you.
  - b Complete the profile by correctly connecting the plotted points with a smooth, curved line.