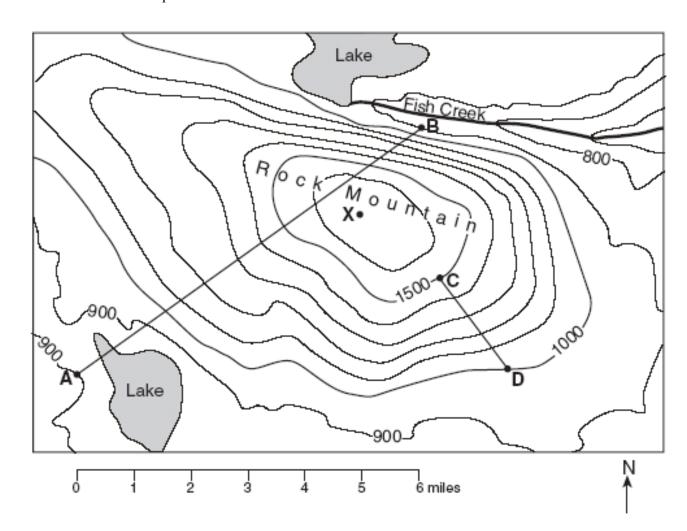
Earth Systems
Mr. Varner
Topographic and Geologic Maps

Topograp	hic I	rofil	le	Lat	)
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Name: Date: Period	:
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## Topographic Map Worksheet

Base your answers to the following questions on the topographic map below. Points A, B, C, D, and X represent locations on the map. Elevations are measured in feet.



1.	What is	the ele	evation	of each	of the	follo	owing	points?
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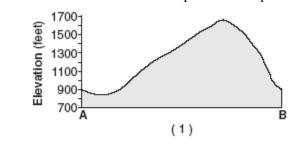
A.	B.	C.	D.

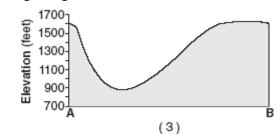
2. What is the contour interval of this map?

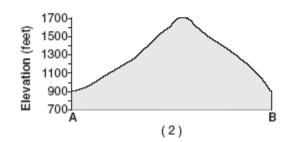
3a. Calculate the Gradient between C and D.

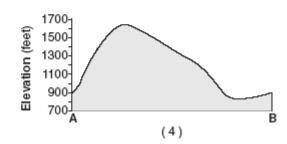
3b. Calculate the Gradient between A and B.

- 4. In what direction does Fish Creek Flow?
- 5. What is the elevation of Point X.?
- 6. Which cross section best represents the profile along straight line AB?



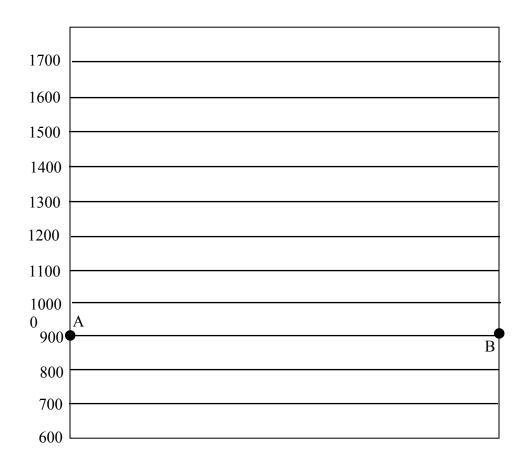






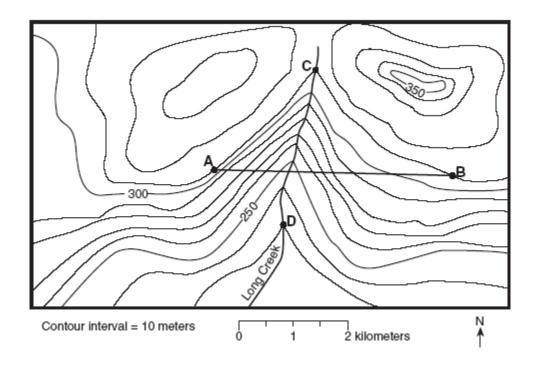
- 7. Which side of Rock Mountain is the steepest? (compass direction)
- 8. Which side of Rock Mountain has the gentlest slope? (compass direction)

- 9. On the grid, 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 the 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.

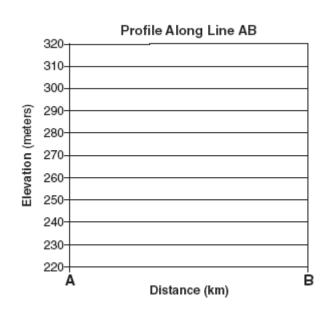


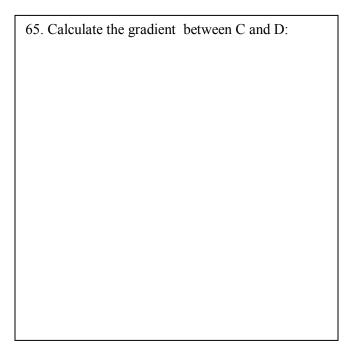
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## Topographic Map Worksheet #2



64 On the grid below, construct a topographic profile along line AB, by plotting a point for the elevation of each contour line that crosses line AB and connecting the points with a smooth, curved line to complete the profile. [2]

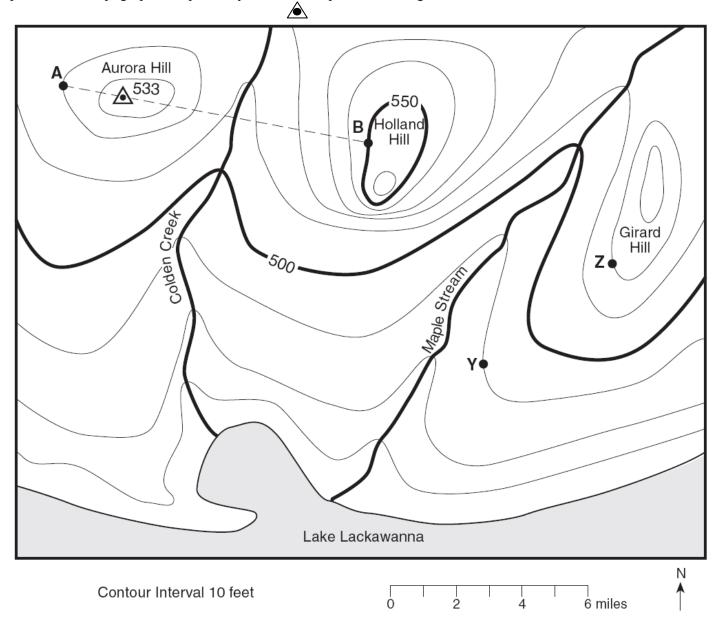




Name: Date	: Period:
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## Topographic Map Worksheet #3

Base your answers to questions 51 through 54 on the topographic map below. Points *A*, *B*, *Y*, and *Z* are reference points on the topographic map. The symbol 533 represents the highest elevation on Aurora Hill.



- 51 State the general compass direction in which Maple Stream is flowing. [1]
- 52 Calculate the gradient between points Y and Z on the map, and label the answer with the correct units. [2]

- 53 Describe the evidence shown on the map that indicates that the southern side of Holland Hill has the steepest slope. [1]
- 54 On the grid, 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  $\mathbf{X}$  each point where a contour line is crossed by line AB. Points A and B have been plotted for you. [2]
- b Complete the profile by correctly connecting the plotted points with a smooth, curved line. [1]

