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 elevation of each of the following points?
   
   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?

- (1)  
- (2)  
- (3)  
- (4)

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 *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.
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]

65. Calculate the gradient between C and D:
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 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]