ES11 **Topographical Map Worksheet** Name:

Elevation is measured in meters. Distance is in km.



km

1. What is the elevation of each of the following points?

A. \_\_\_\_\_\_\_\_\_\_\_\_\_ B. \_\_\_\_\_\_\_\_\_\_\_\_\_ C. \_\_\_\_\_\_\_\_\_\_\_\_\_ D. \_\_\_\_\_\_\_\_\_\_\_\_\_

2. What is the contour interval of this map? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Calculate the gradient between points C and D. (Change in elevation divided by distance)

4. In what direction does Fish Creek Flow? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ How do you know?

5. What is the elevation of Point X.? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Which cross section below 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 below*,* 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 a dot at *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.

