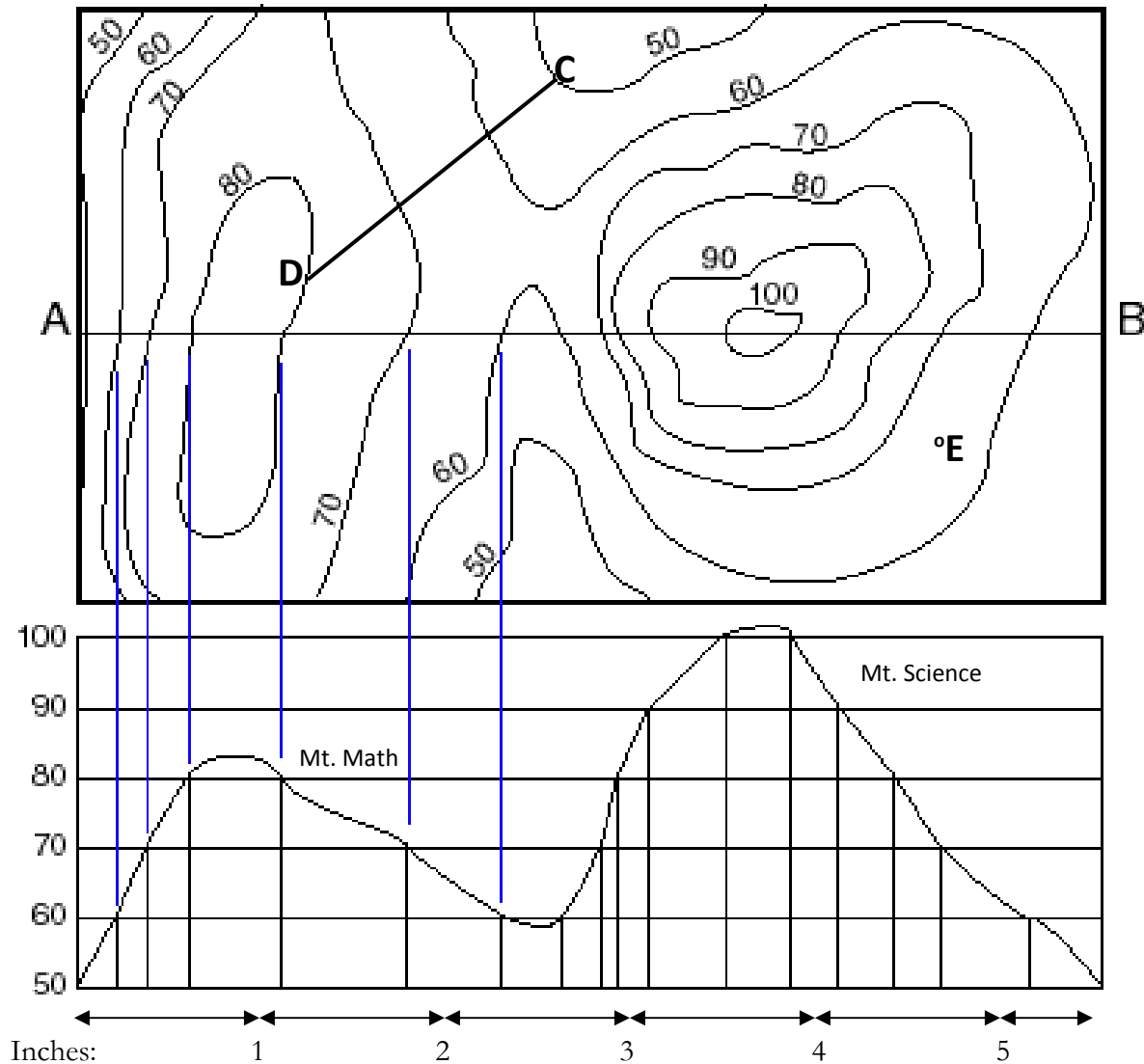


MiSP Topographic Maps Assessment L3

Name _____

Date _____

The contour/topographic map shows an area with two hills named Mt. Math and Mt. Science. A graphical profile of the line from A to B is below the map. The map's distance key is 1 inch = 2 miles. You will need a ruler for this assessment.



1. What is the horizontal distance along the line drawn from C to D to the nearest 0.25 mile? Show your work.

_____ miles

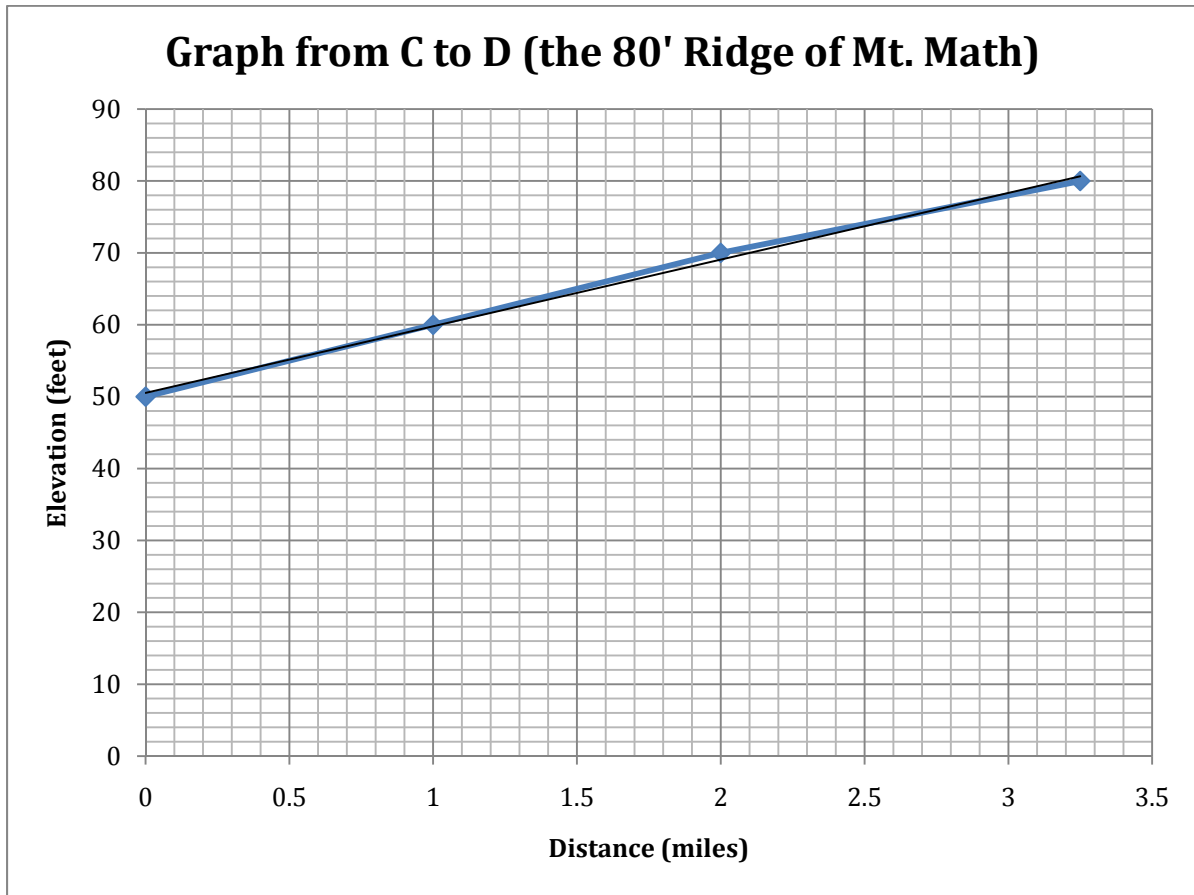
2. If you walked from C to D along the line marked on the map, would you be walking on an upward slope or a downward slope?

How do you know?

3. What is the elevation of the dot by letter E? _____ feet.

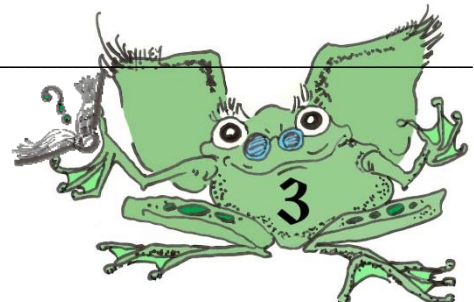


The line from C to D (the 80' ridge of Mt. Math) is graphed on the grid below:



4. What is the slope of the line on the graph above? Show your work.

5. What would be the sign (positive/+ or negative/-) of the unit rate of change (slope) for a line from the top of Mt. Science to B? Explain why the slope would be positive/+ or negative/-.



6. Determine the y -intercept of the line on the graph above.

y -intercept = _____

7. Using the slope from #4 above and the y -intercept in #6, write an equation for the line on the graph showing the distance and elevation of the line from C to D (the 80' ridge of Mt. Math).

8. Using the equation from #7, what will be the elevation 0.63 miles from point C?

