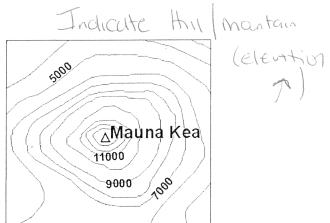
NAME:

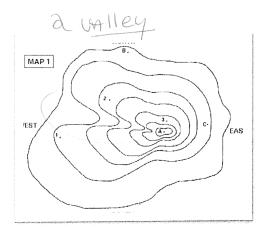
\_\_\_\_\_ Date:\_\_\_

## A. Patterns of Contour Lines:

1. Concentric Circles:



2. Lines that make a "V" or "U" shape:



B. Gradient is indicated by how close (or far) the contour lines are spaced from one another.

1. A steep (high) gradient:

line spaced close together

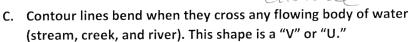
2. A gentle (low) gradient:

line Spead forther apart (

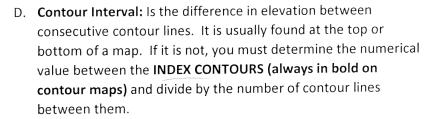
3. Formula for Gradient:

Change in elevation

distance

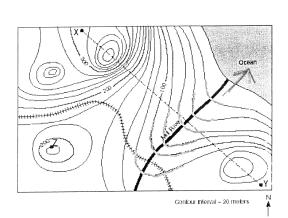


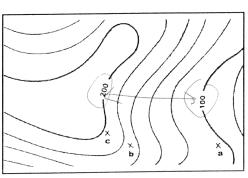
- 1. The tip of the "v" point's <u>Upslope</u>, and the water flows downslope in the <u>Deposite</u> direction.
- 2. Always look at the contour elevations. Water will always flow from high to ow elevation.

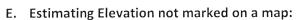




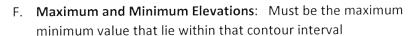
200ft-100ft = 100 5 Cortorine: 5





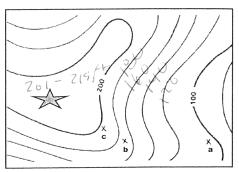


Always estimate the average of the two contour lines it is inbetween:



a. Maximum value for the star: 2/9 /-

b. Minimum value for the star: 201ft



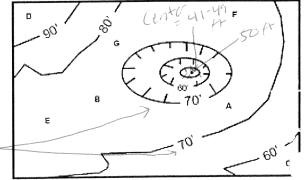
and

G. Depressions/Hatchured Contour Lines: Show where elevation is decreasing. Will form concentric circles that indicate land is getting lower/deeper towards the center

Rule:

The first depression/hatchurd Contour line is equal in elevation to the Contour line prior

N 1 contour interval = 10'



H. Benchmarks: These are known elevations on a map. The symbols for Benchmark are :  $\underline{X}$  or  $\underline{B}\mathcal{M}$ 

## General:

▲ This symbol on a map indicates:

Sea Level on a map is always going to be : \_\_\_\_\_ m or \_\_\_\_ ft

If elevation is reported in feet, the distance on a map scale will be reported in  $\underline{\qquad}$ 



When calculating gradient on a map, you must include UNITS (ft/mile OR m/km). Remember to use a piece of paper to mark the distance on a piece of paper, and drag down to the map scale. To find the difference in elevation, you must use the contour lines!

## To construct a topographic profile:

- 1.) Line a scrap piece of paper directly between two points of interest
- 2.) On the paper, put a mark at every location where a contour
- 3.) Drag the piece of paper down below a profile vertical scale.
- 4.) Plot the elevations directly above your marked points. Connect the points with a smooth curve to show the trend in increasing and/or decreasing elevations.

