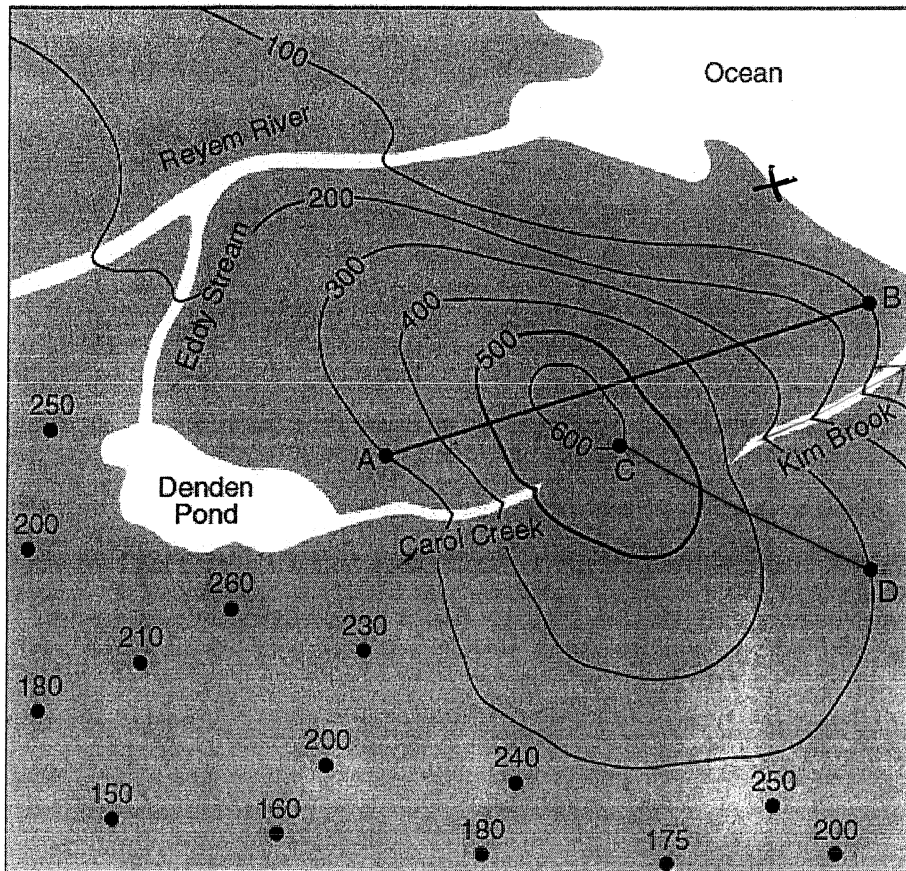


Topo maps- mid term part II prep

Name: Ikey

Base your answers to questions 1 through 3 on the topographic map in your answer booklet and on your knowledge of Earth science. Points A, B, C, and D represent locations on Earth's surface. Elevations are measured in meters.

Answers:



1) NE/E

The contour lines bend upslope / V point toward the SW

2) (show work below)

a. write formula:

$$G = \frac{\Delta \text{elevation}}{\text{distance}}$$

b. substitute units:

$$= \frac{600 - 300}{4 \text{ km}} = \frac{300}{4}$$

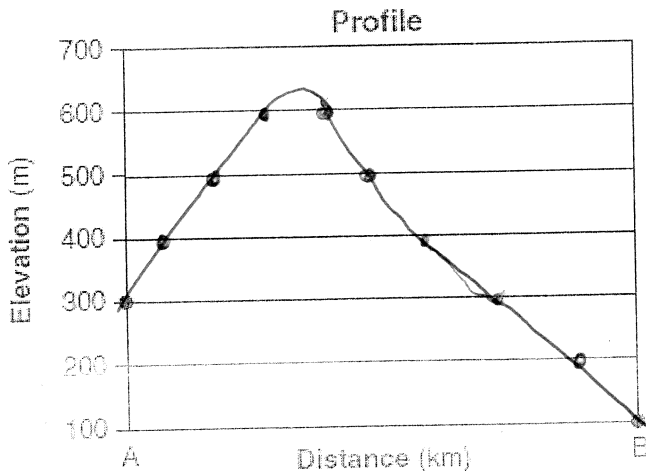
c. calculate answer:

$$\frac{300}{4} = 75$$

d. include units.

75 m/km

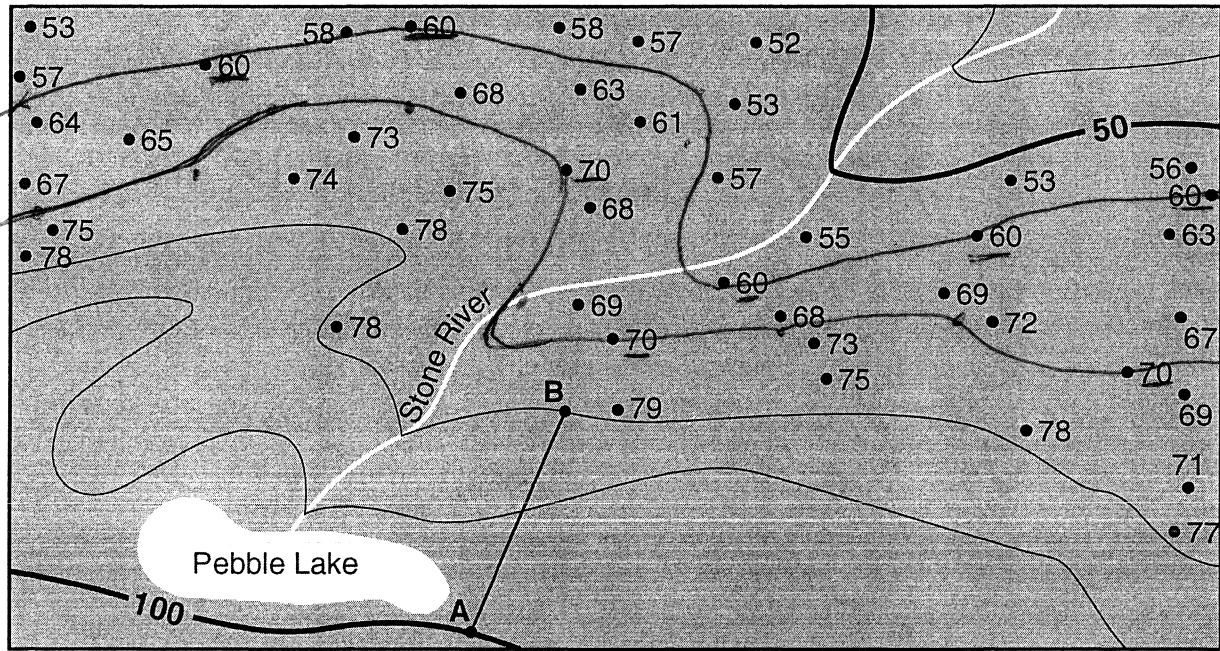
- Identify the compass direction toward which Kim Brook flows. Describe the evidence shown on the map that indicates the water flows downhill in that compass direction.
- Calculate the gradient between points C and D. Label your answer with the correct units.
- On the grid construct a topographic profile along line AB by plotting the elevation of each contour line that crosses AB. The elevations of points A and B have been plotted on the grid. Connect all ten plots with a line from A to B complete the profile.



4. State the Elevation of point X. Include Units

0 m
(b/c at sea level!)

5. Base your answer to the following question on the topographic map below and on your knowledge of Earth science. Some contour lines have been drawn. Line *AB* is a reference line on the map.



0 0.4 0.8 1.2 1.6 km Contour interval = 10 meters

N
W — O — E
S

On the map, draw the 60-meter and 70-meter contour lines. The contour lines should extend to the edges of the map.

(Contour lines must bend upslope as they cross the stone river!).

* remember to draw " " / points to estimate locations of known values by using the numbers of surrounding area!