

Topic: Field Maps and Isolines

Aim:

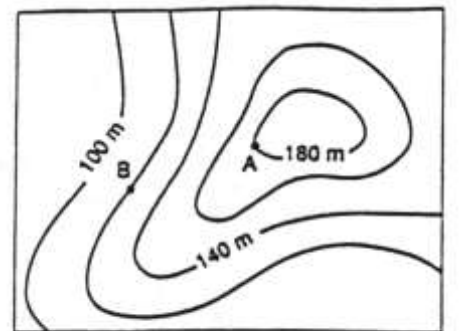
Recall	Notes
1. What is the definition of gradient?	Gradient is the change in field value in a given distance.
	On a contour map: gradient = slope
	gentle or gradual slopes – land is relatively flat
2. What is the gradient formula?	Gradient = $\frac{\text{Change in Field Value}}{\text{Distance}}$ ← difference in elevation between 2 given points ← distance measured with map scale

SAMPLE PROBLEM #1

A road in New York State begins at a location 200 meters above sea level and runs down into a valley that is 40 meters above sea level. The length of the road is 20 kilometers. What is the gradient of the road? (Show all work.)

SAMPLE PROBLEM #2

What is the gradient between points A and B? (Show all work.)



0 10 20 30
SCALE (kilometers)