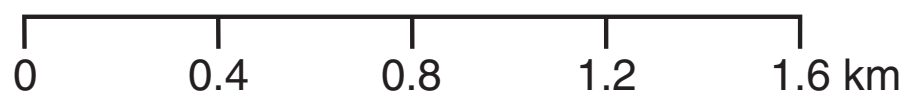
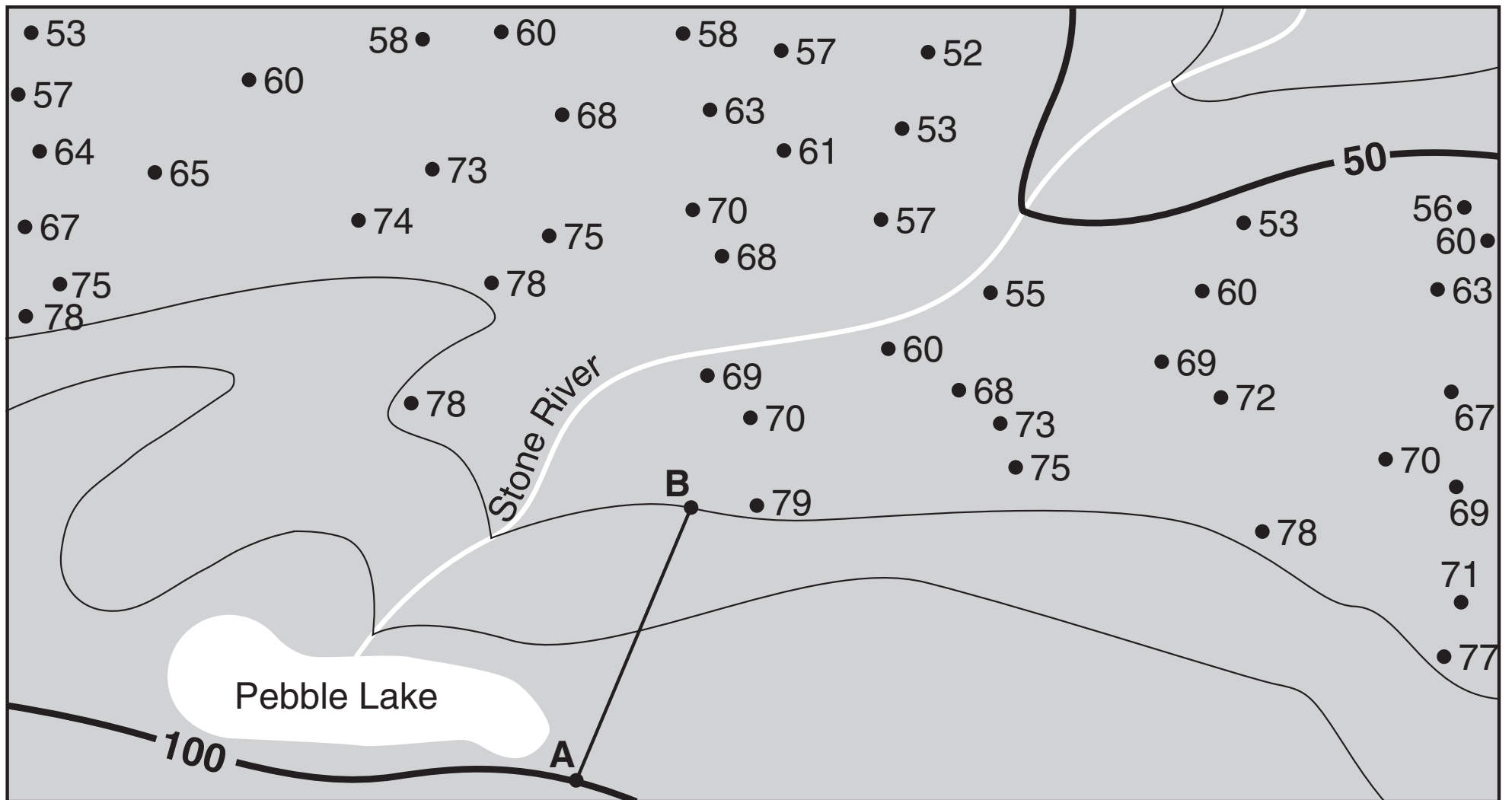
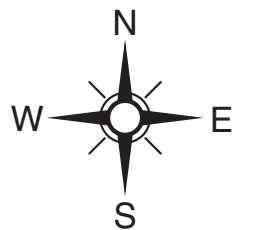


TOPOGRAPHIC MAP ANALYSIS

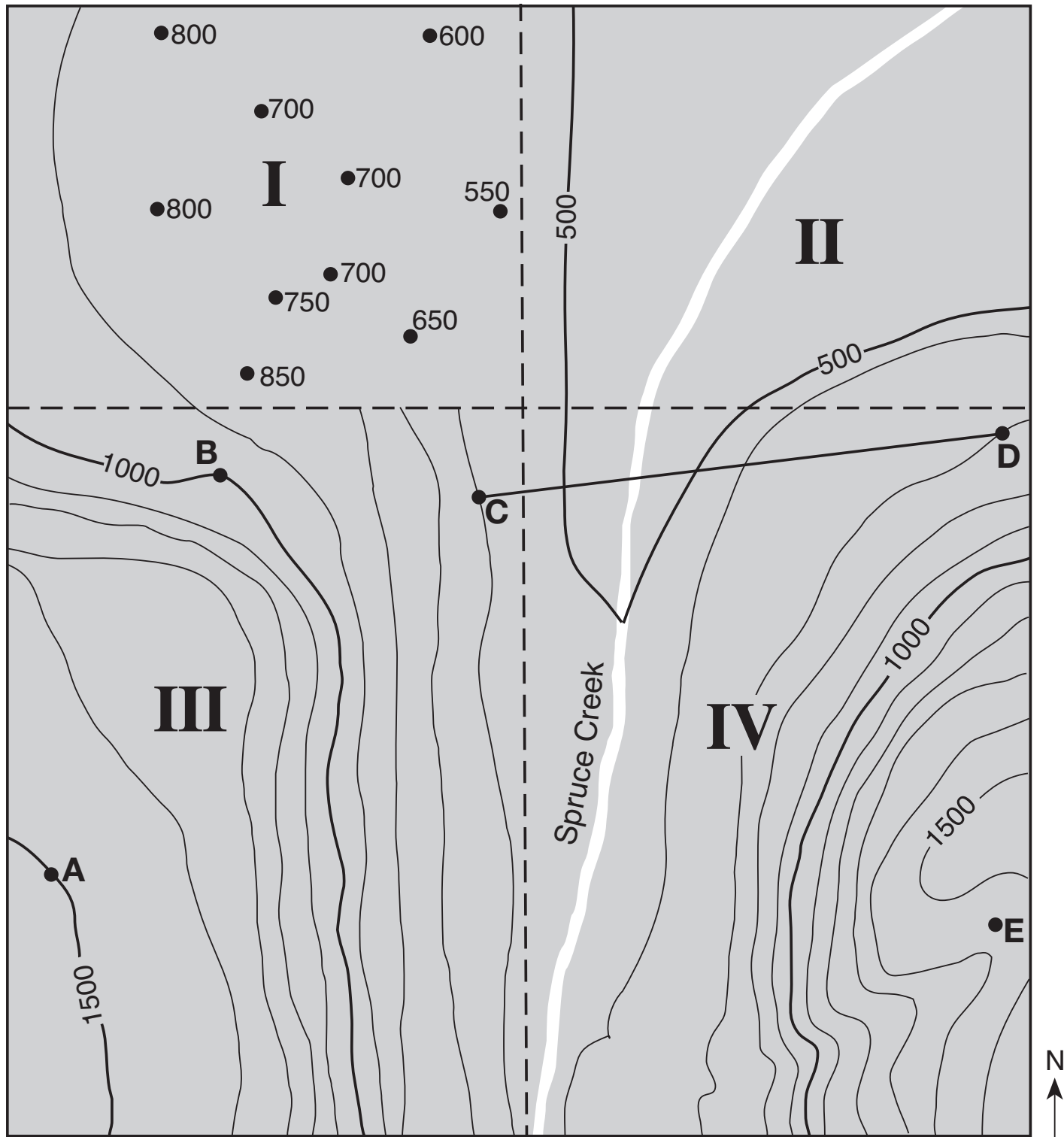


Contour interval = 10 meters

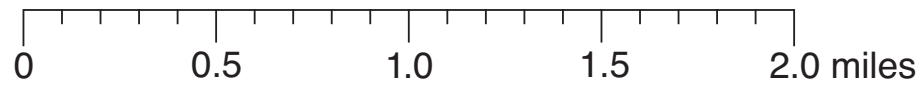


1. On the map above, draw in the 60 and 70 meter contour lines.
2. What is the gradient between points A and B? _____
3. What compass direction is Stone River flowing? _____
4. Explain two pieces of evidence that support your answer to question 3.

5. What is a possible elevation of the edge of Pebble Lake? _____
6. Describe where on the map the steepest slope is and how you can tell by looking at the contour lines.



Contour interval = 100 feet

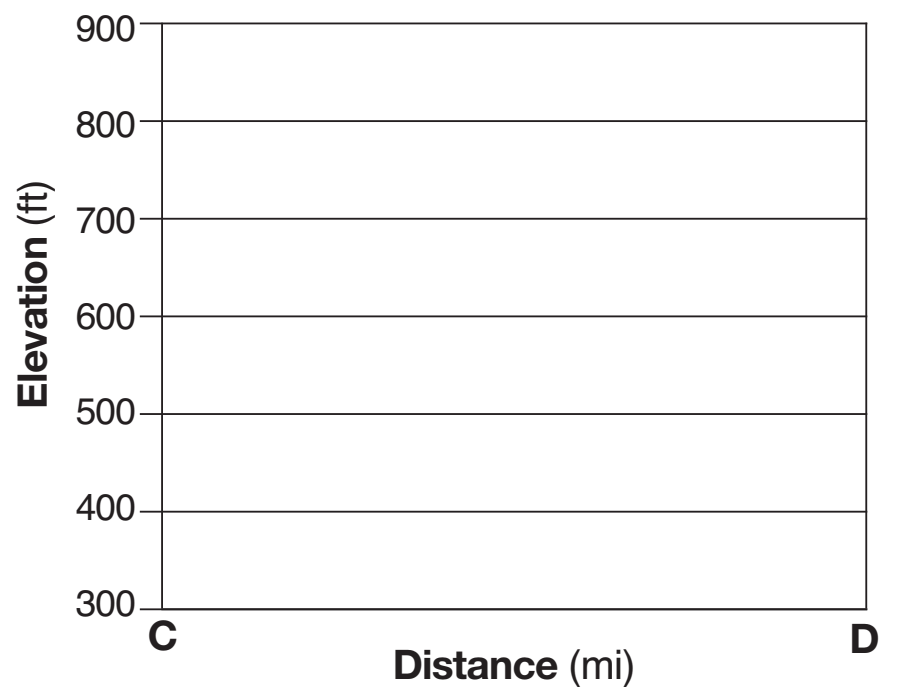


1. On the map above, complete the 600, 700, and 800 foot contour lines.
2. What is the gradient between points A and B?

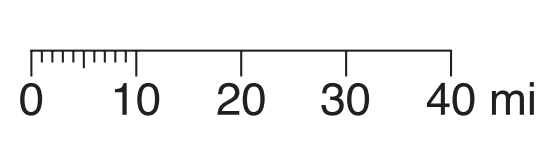
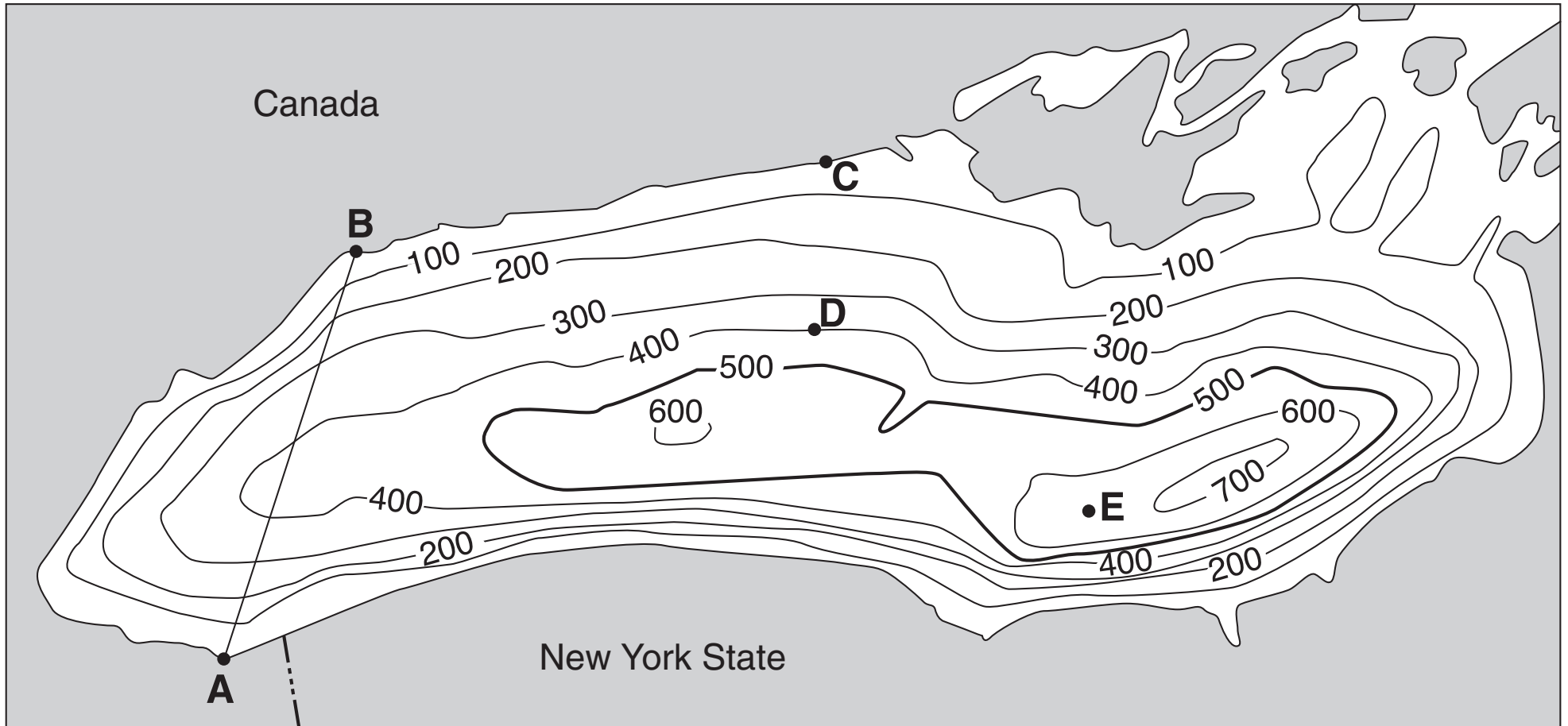
3. What compass direction is Spruce Creek flowing?

4. What is a possible elevation of point E?

5. Use the grid on the right to draw a profile along line CD.



Water Depth of Lake Ontario

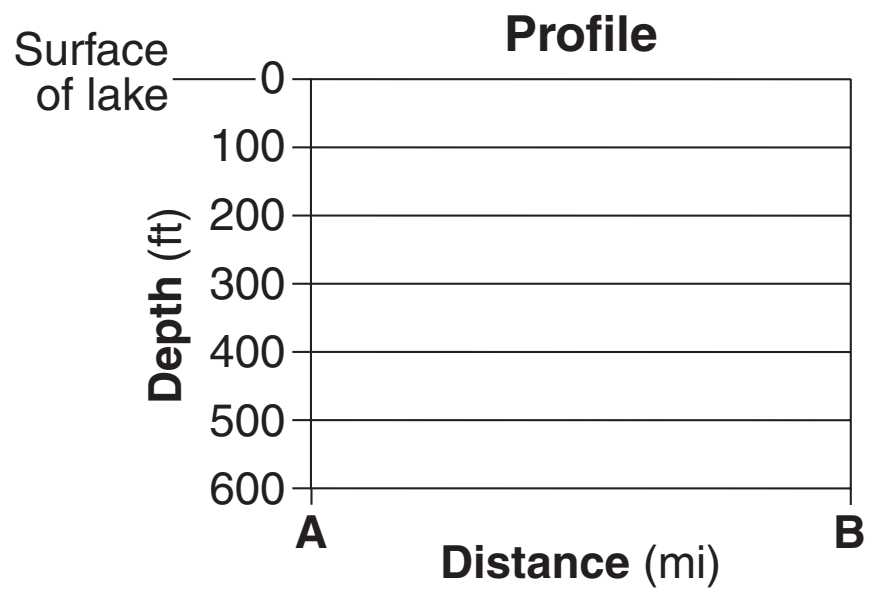


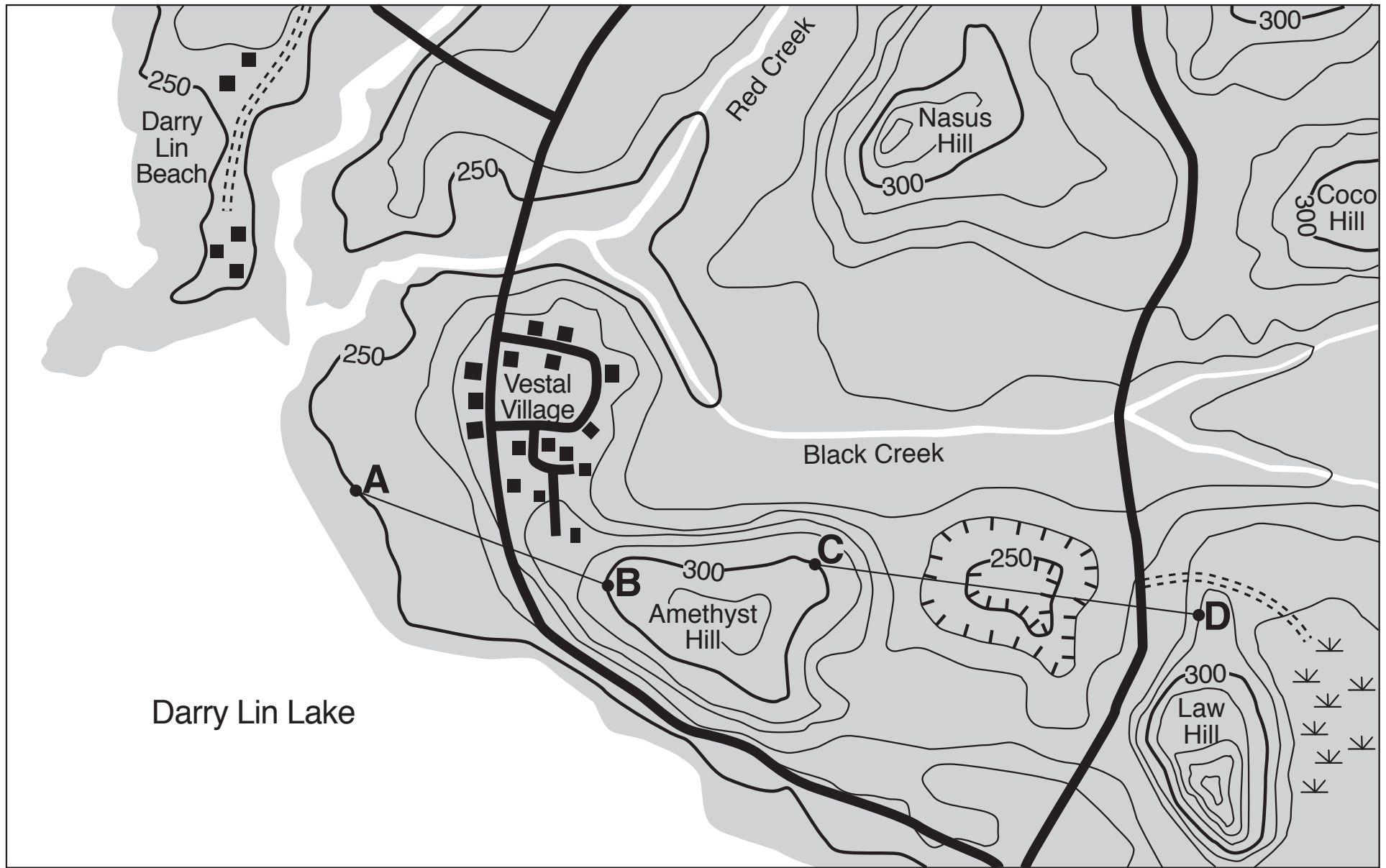
1. What is the gradient between points C and E?

2. Which side of the bed of Lake Ontario has the steepest slope? How can you tell?

3. What is the elevation of point D?

4. Use the grid on the right to draw a profile of the lake bottom along line AB.





Contour interval = 10 feet

Key			
	Paved roads		Depression
	Unpaved roads		Buildings
	Swamp		

1. What is the gradient between points A and B?

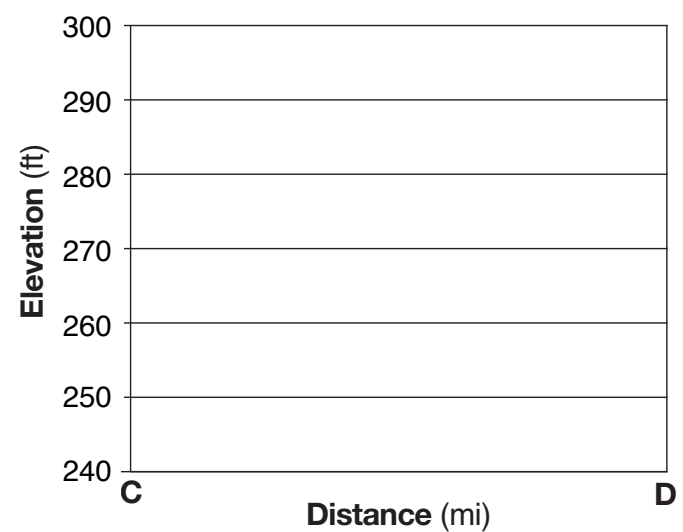
2. Which side of Nasus Hill has the steepest slope? How can you tell?

3. What is the highest possible elevation of Law Hill?

4. What is the lowest possible elevation of the depression east of Amethyst Hill?

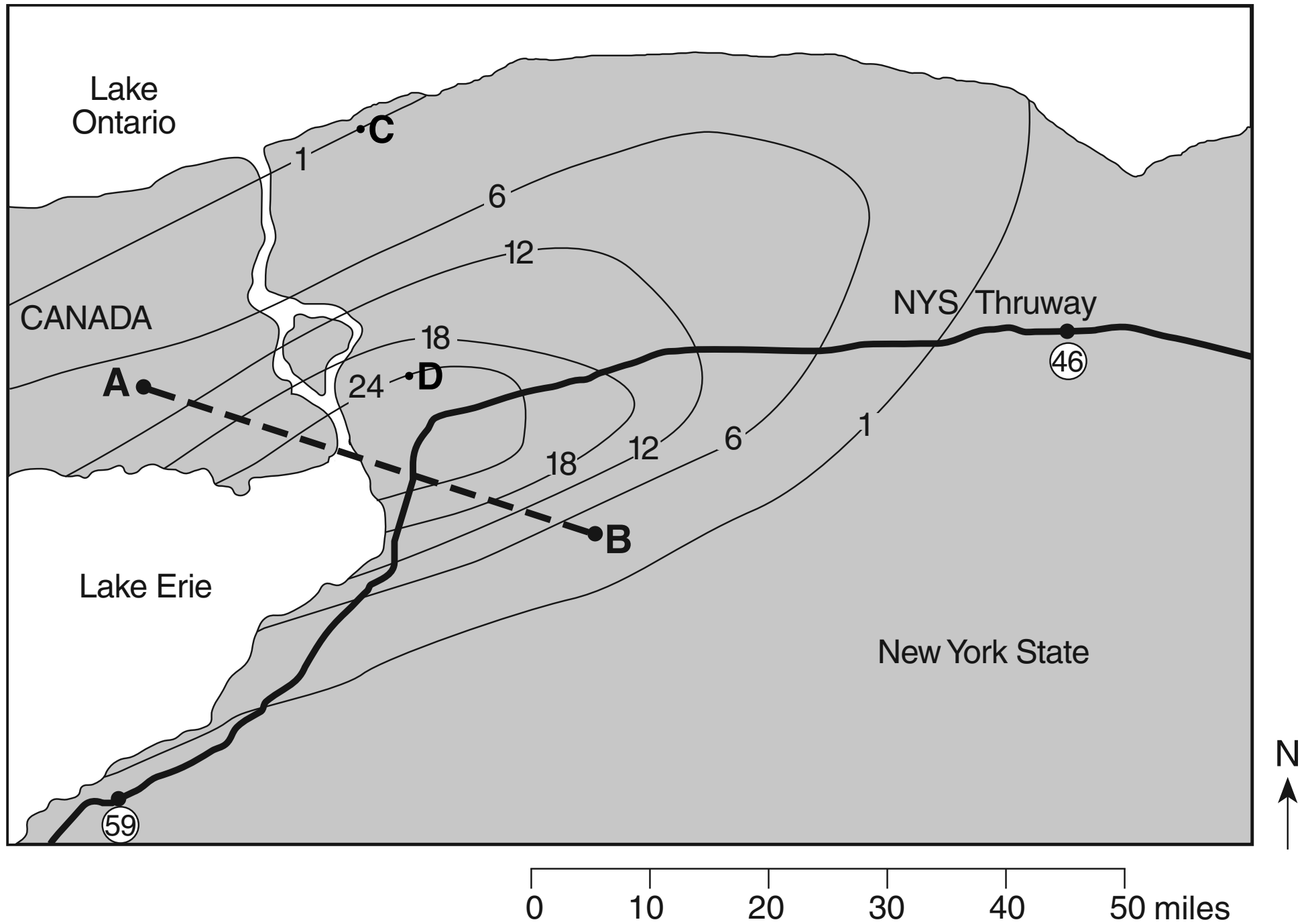
5. What general direction are the two creeks flowing?

6. Use the grid on the right to draw a profile along line CD.



A Lake-Effect Snowstorm

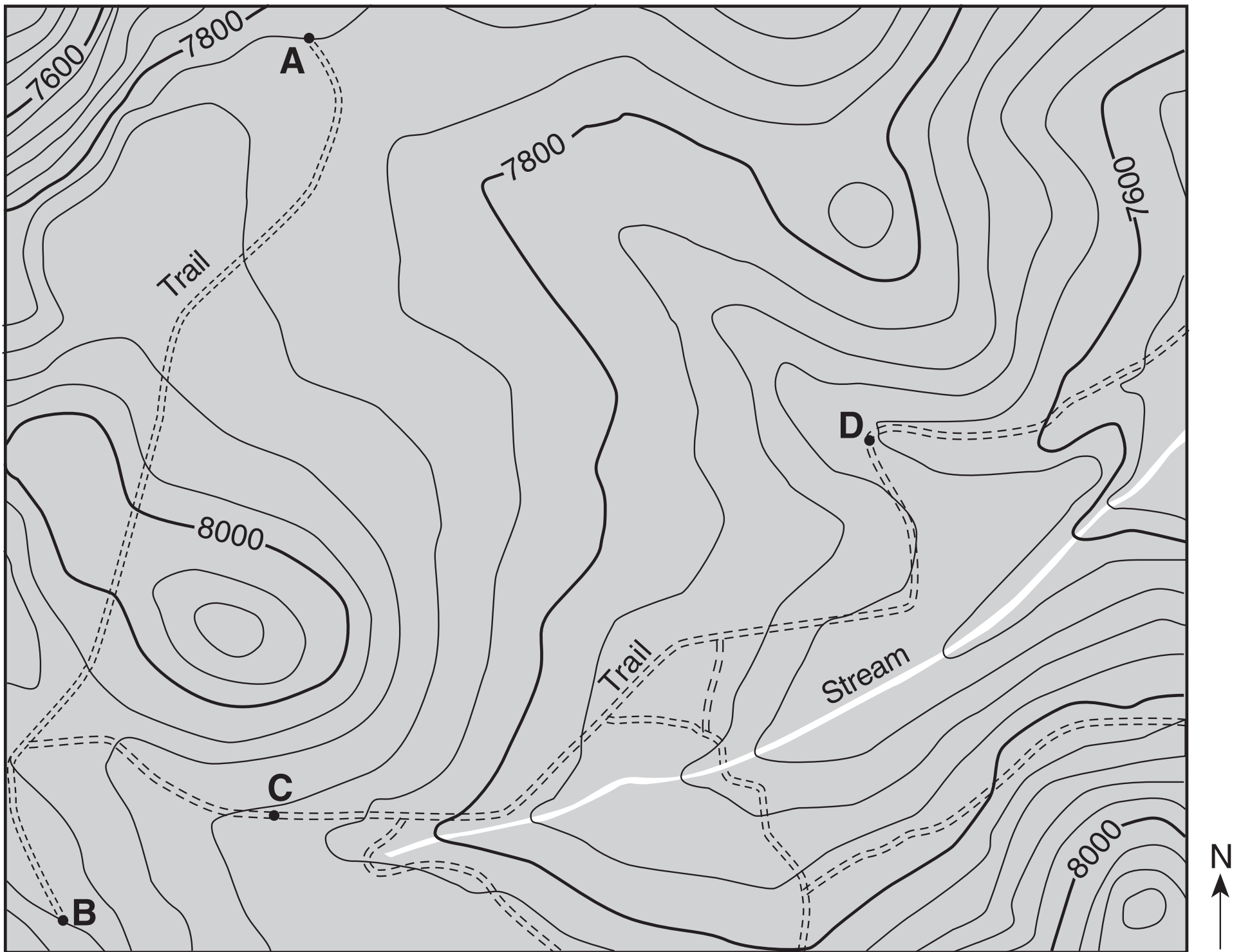
A snowstorm affected western New York State on October 12 and 13, 2006. A blend of weather conditions caused more than 24 inches of heavy, wet, lake-effect snow, bringing much of western New York to a standstill. The New York State Thruway was closed to traffic between exits 46 and 59, which are circled on the map. The isolines on the map show the amount of snowfall, measured in inches, resulting from this storm. Points A and B represent locations on Earth's surface.



1. Approximately how many miles of this section of the Thruway were closed due to the snowstorm? _____
2. Determine the number of inches of snow that was received in Niagara Falls, New York, from this snowstorm. _____
3. Identify the most probable direction from which the wind was blowing to produce the pattern of snowfall shown on the map. _____
4. What is the snowfall gradient between points C and D?

5. Use the grid on the right to draw a profile along line AB.





1. On the map, place an X on the trail between A and B so the center of the X indicates where the slope is steepest. Explain why you put the X where you did.

2. On the map, draw an arrow on the stream to show the direction in which the stream is flowing. State one piece of evidence shown on the map that supports the direction of the arrow you drew on the stream.

3. What is the highest possible elevation shown on this map? _____

4. What direction is the stream flowing? How can you tell? _____

5. Calculate the gradient between points B and C. _____