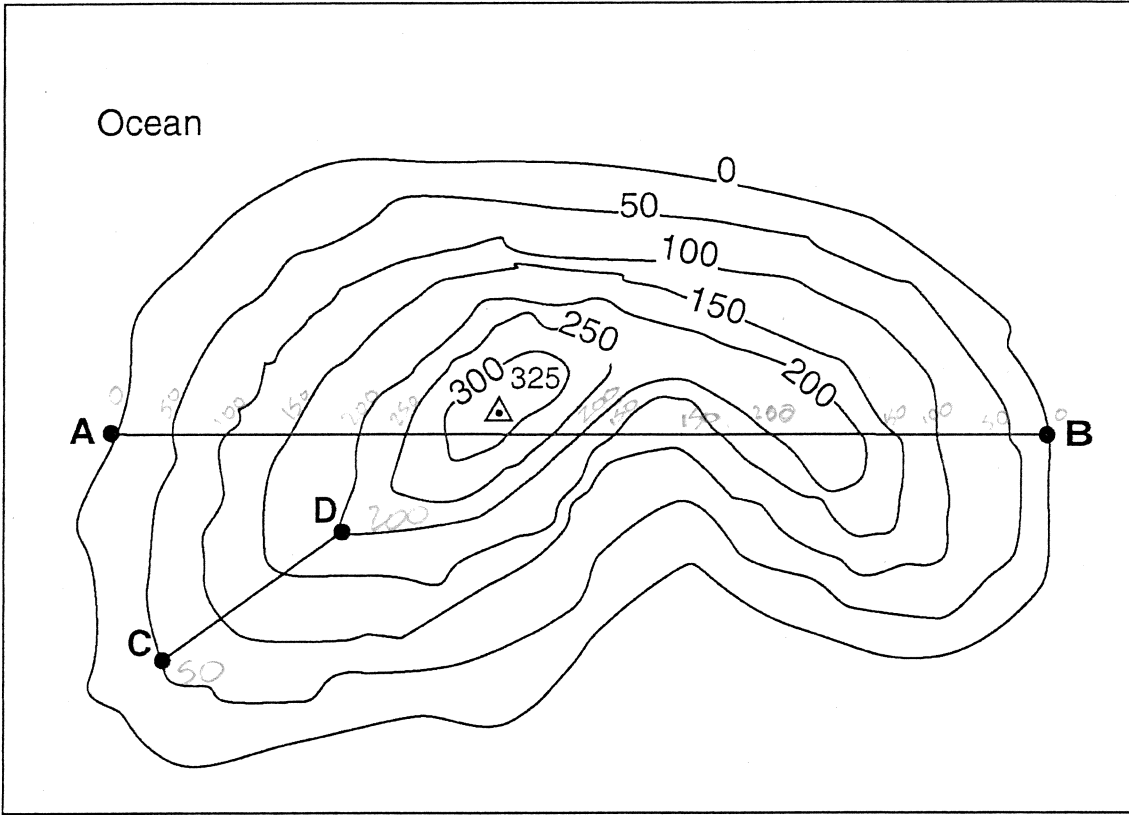


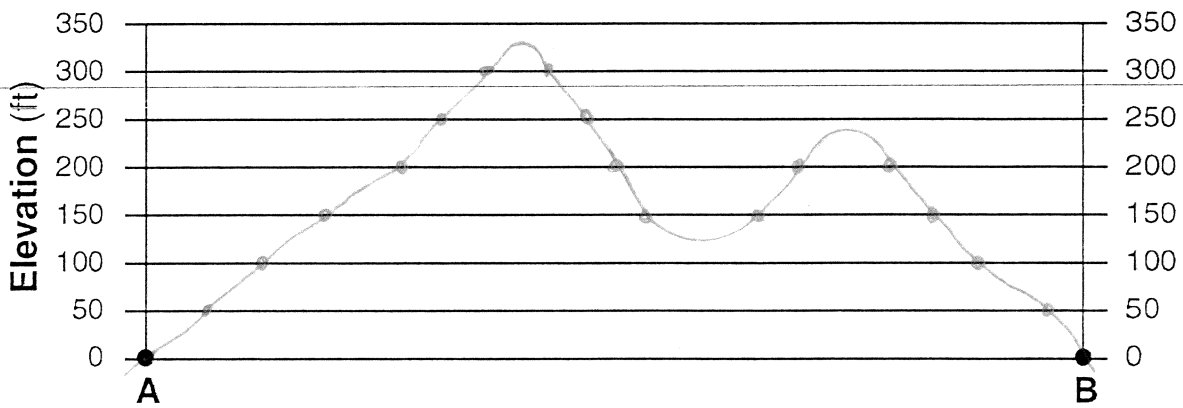
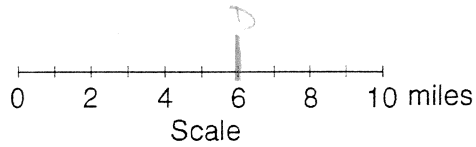
# Topographic Maps

Base your answers to questions 26 and 27 on the topographic map of an island shown below. Elevations are expressed in feet. Points A, B, C, and D are locations on the island. A triangulation point shows the highest elevation on the island.



△ - Bench Mark

CI: 50 Feet



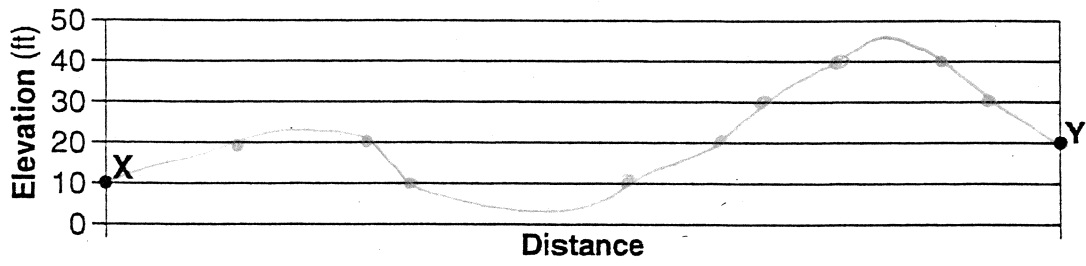
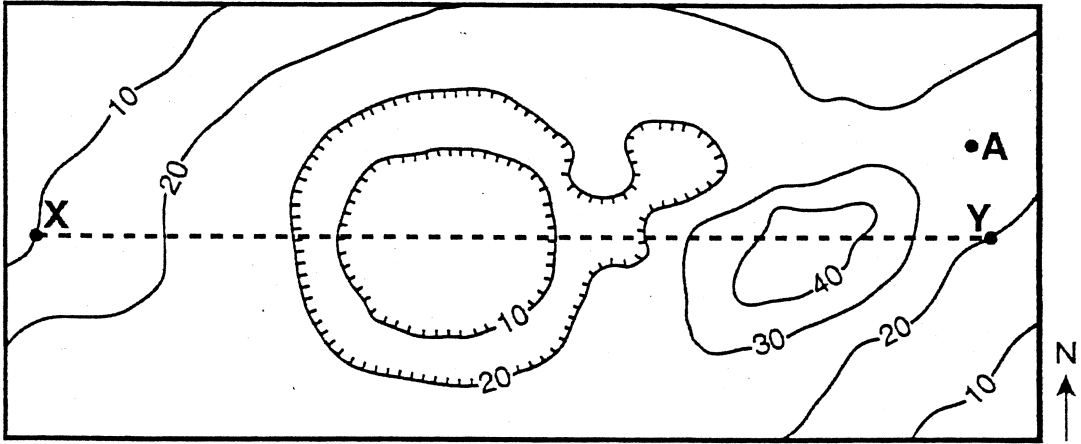
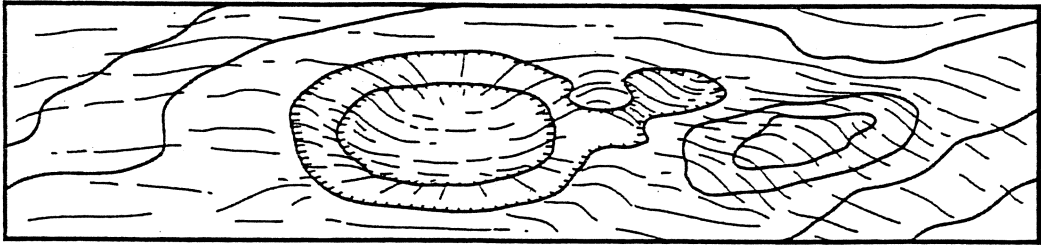
26. What is the average gradient, in feet per mile, along the straight line from point C to point D? 25 ft/mi

$$\frac{200\text{ft} - 50\text{ft}}{6\text{mi}} = \frac{150\text{ft}}{6\text{mi}} = 25\text{ft/mi}$$

27. Construct a topographic map profile along line A-B. ✓

Key

Base your answers to questions 4 and 5 on the diagrams below. The top diagram shows a depression in a hill on a gently sloping area. The bottom diagram is a topographic map of the same area. Points A, X, and Y are locations on Earth's surface. A dashed line connects points X and Y. Elevation is indicated in feet.



4. Construct a topographic profile along line XY on the grid by plotting a point for the elevation of each contour line that crosses line XY. Points X and Y have already been plotted on the grid. Connect the points with a smooth, curved line to complete the profile. ✓

5. What is a possible elevation of point A?

Any number between 21-29

25