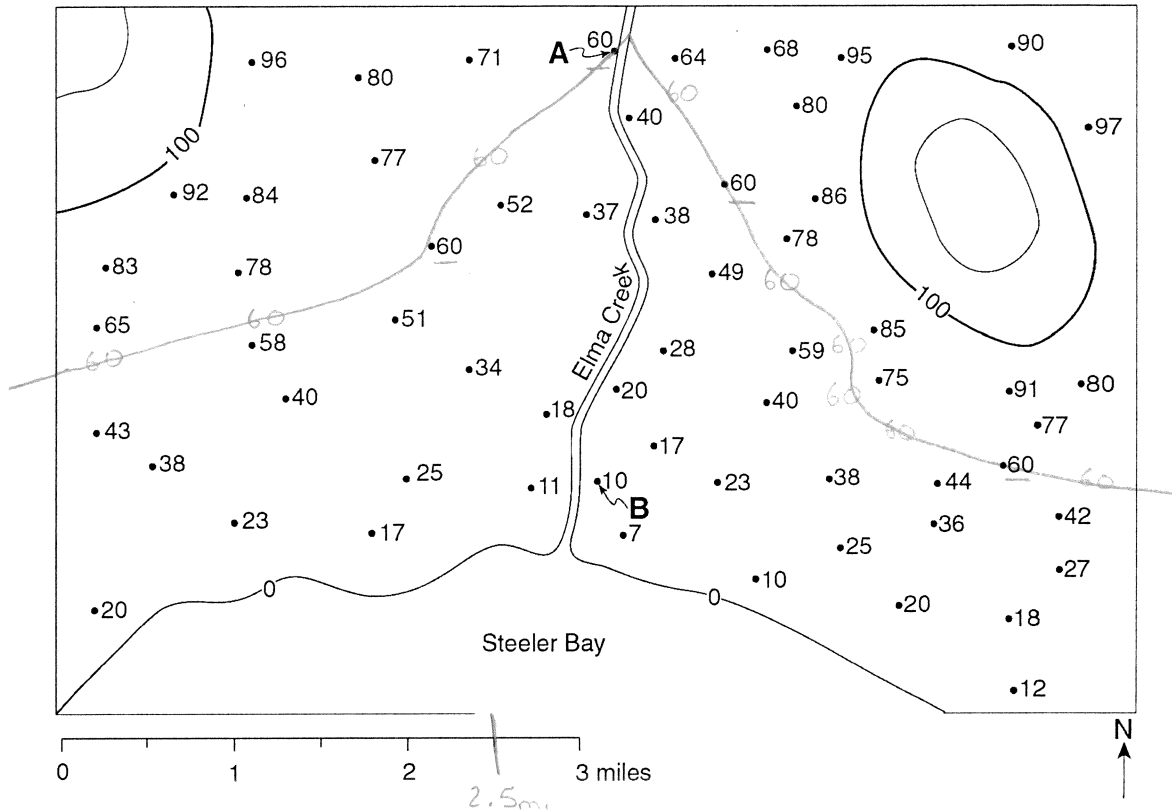


Base your answers to questions 1 through 3 on the field map below. The map shows elevations, measured in feet, of a number of points in a certain geographic region. Contour lines have been drawn for the 100-foot and 120-foot elevations. Points *A* and *B* represent two spot elevations on the map.



1. Toward which general compass direction does Elma Creek flow?

South

from high to low elevation
AND
opposite the V-shaped contour lines

2. On the diagram above, draw the 60-foot contour line. Make sure that the contour line extends to the edges of the map. ✓

3. Calculate the gradient between points *A* and *B*. Label the answer with the correct units.

$$\text{Gradient} = \frac{\Delta \text{field value}}{\text{distance}} = \frac{60\text{ft} - 10\text{ft}}{2.5\text{mi}} = \frac{50\text{ft}}{2.5\text{mi}} = \boxed{20\text{ft}/\text{mi}}$$