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Shared Community Problem #3

Distance Formula

What is the distance between Sitka and Juneau? Use a map (such as GoogleMaps) and create a coordinate plane over the map (use the map scale to help). Use the distance formula to find the distance between Sitka and Juneau.

Sample of Work



Each square on grid equals 100 sq miles.

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

$$d = \sqrt{(0 - 50)^2 + (0 - 80)^2}$$

$$d = \sqrt{2500 + 6400} \quad d = \sqrt{8900}$$

Distance = 94 miles