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Place-Based Problem #3

Circle

Mt Edgecumbe Volcano is an important landmark for the Sitka area. During the summer months many locals and tourist hike the trail to the crater. Imagine you just hiked to the ridge and have decided to walk following the rim all the way around. Use what you know about circles to estimate the distance around the rim. Use Google Earth, a map or other technology to estimate the diameter of the crater ridge and estimate the circumference.

work sample

images from Google Maps





Using the scale I estimated the diameter to be around 2,600 feet. Using that 2,600 feet as the diameter of the circle I can estimate the distance around the rim as:

$$C = \pi d \quad C = \pi 2600 \quad C = 8168.14 \text{ feet}$$

I conclude that the distance around the rim is around 8170 feet which is about 1.5 miles.