

1. Suppose you live in Michigan and you have a friend who lives in the Caribbean, nearer to the Earth's equator. As the earth completes a full rotation, you trace out a circle with a radius length of about 2000 miles. The radius length of the circle your friend traces is about 4000 miles. How much of a full rotation do you make after you have traveled 1,000 miles? How much of a full rotation has your friend made after traveling 1,000 miles?

