

Math 1513 - College Algebra

Written Assignment 1 - Due 2010.08.22

Directions: Please answer the following question in complete sentences. Be sure to label all geometric objects in any illustrations. I will accept an answer in a scanned image format, in a Word document or as a pdf.

Question: The average distance from the center of the Earth to the center of the sun is 92,960,00 miles. There are approximately 365.26 days per year. Estimate the average speed (in miles per hour) that Earth is moving around the sun if it is assumed that Earth's orbit is circular. Use $\pi \approx 3.14$ for your first estimate, then $\pi \approx 3.14159$ for your second, compare the two average speeds. Does the approximation of π change the average speed a great deal?