Math 29

Homework 2

Write a 1-3 sentence summary of what we did in class the previous period.

1. The length L of skid marks of a car's tires when the brakes are applied is proportional to the square of the speed v of the car. If skid marks of 20 ft are produced at 30 mph, how fast would the same car be going if the same car produced skid marks of 80 ft?

2. The odometer in my car does not measure distances correctly. For a 220 mile trip the odometer registered only 216.7 miles. On the return trip, I made a detour to stop at the beach. If my odometer registered 453.1 miles for my round trip, how many miles was the detour.

3. A patient must be given a medication every 5 hours starting at 10:00 am on Thursday. What is the first day on which the patient will receive the medication at noon? Explain your reasoning.

In Section 1.3, do problems 1.3.9, 1.3.10, and 1.3.11. Be sure to show all of the steps of your work.