

Chapter 1 HW

Review Questions: 7, 14, 20, 23, 27

Exercises: 2, 6, 20, 22, 26, 27, 29

Problem: 10

Additional:

A. If I travel across the United States from L.A. to N.Y. (about 3000 miles) at an average speed of 70 mph, how many days will it take?

B. If a car is increasing its speed by exactly 5 mph each second, what would a graph of speed versus time look like? What would be the relationship shown by the graph?

C. When can an automobile with a velocity toward north have acceleration toward the south? Explain.

D. What is the average acceleration of your car if you go from 0 mph to 50 mph in 2 seconds? Give your answer in standard units.

E. How long did it take Newton's apple to fall to the ground if the branch was 3 meters off the ground?