Digest 8

(A compilation of emailed homework questions, answered around Wednesday.)

Question. (From a student): Question 10 seems to be incorrect. I got the maximum at $v = 5$.

Answer. This question was stated incorrectly. The question should be correct now.

Question. (From a student): For 7B, can a calculator be used? As for question 8, what does the second line mean?

Answer. Yes, you can use a calculator here if you want, or you can just get a rough estimate using trigonometry by hand, up to you.

For question 8, let's say the cabinetmaker orders ten furnishings of wood every two days. On the first day, they have ten units of wood, so her storage expense is $100 for the first day. On the second day, they have five units left (since five units were processed on the first day), so her storage expense is $50 for the second day. So, her total expense for the two day period is $5000 + 100 + 50$. So, her average daily cost is $(5000 + 100 + 50)/2$.