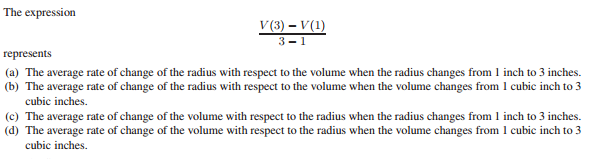
# MATH 161 Class Discussion 13 Sept 2017

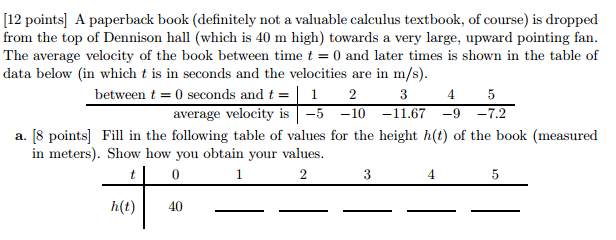
1. The cost of extracting *T* tons of ore from a copper mine is *C = F(T)* dollars. Using a complete sentence that avoids mathematical terminology, explain the meaning of F(2000) = 300,000. (Include appropriate units.)

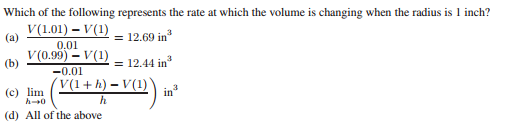
2. Albertine travels from Chartres to Mt. Saint Michelle at an average speed of 50 km/hr. She returns to Chartres at an average speed of 60 km/hr. What is Albertine’s *average speed* during the roundtrip?

3. The expression

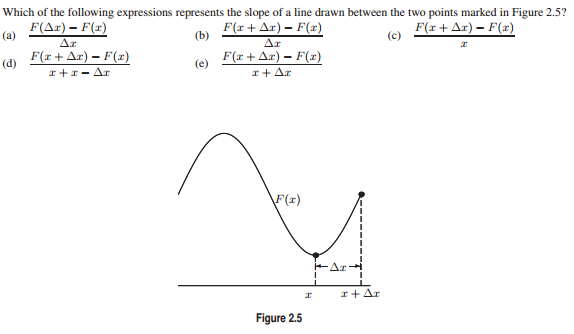


4. A paperback book (definitely not a valuable calculus textbook, of course) is dropped

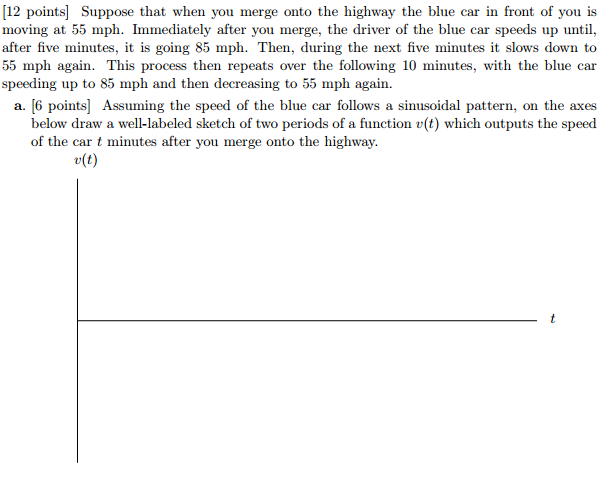




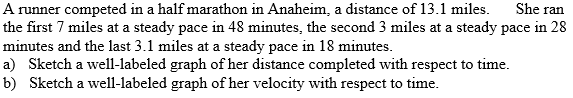
5.



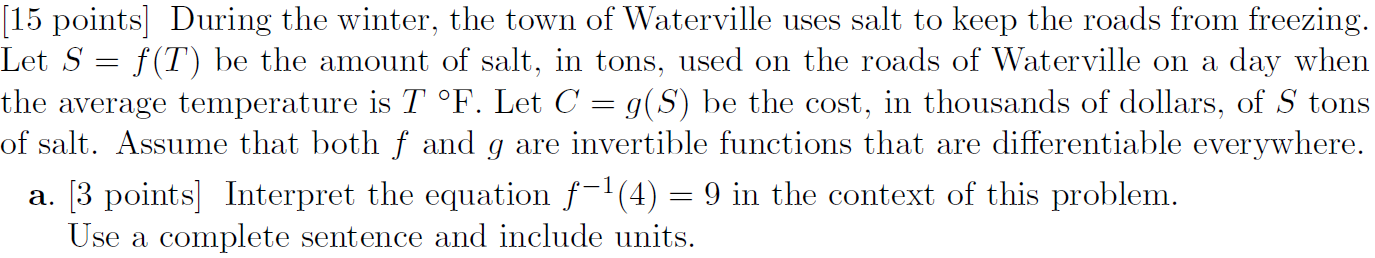
6.

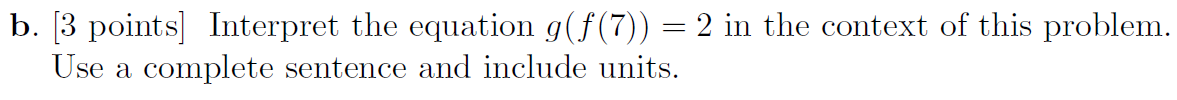


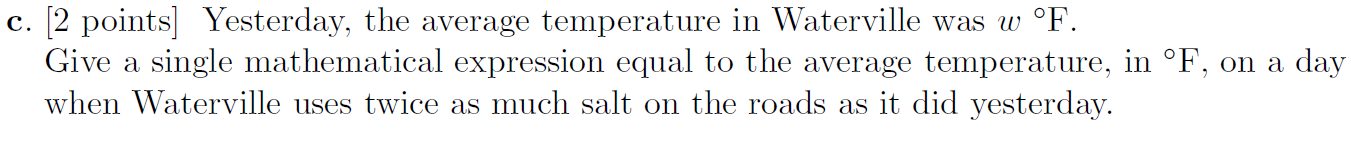
7. *(University of Michigan problem)*



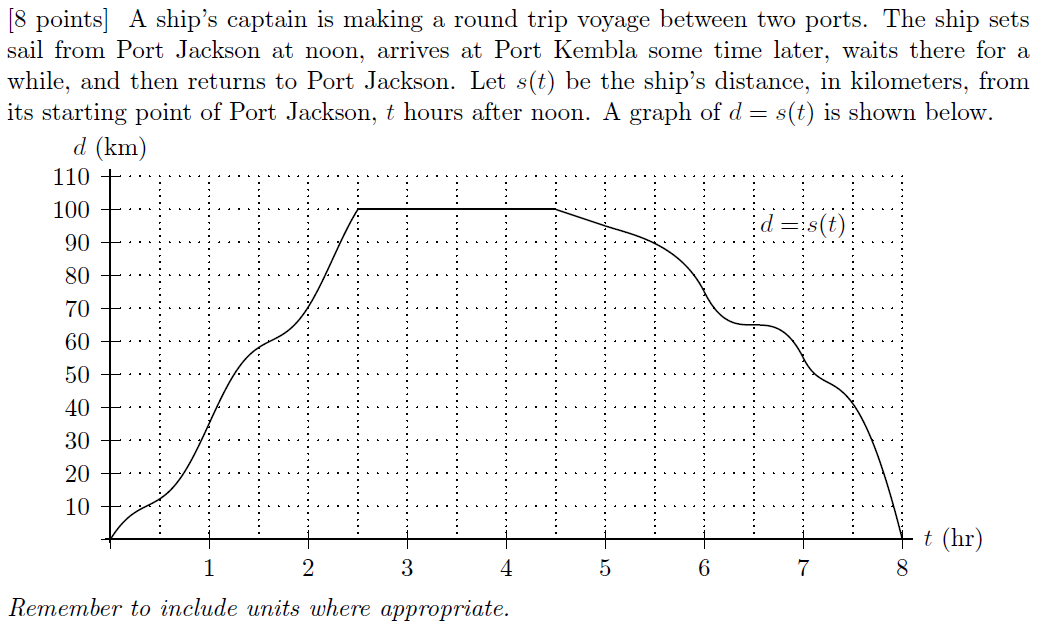
8.

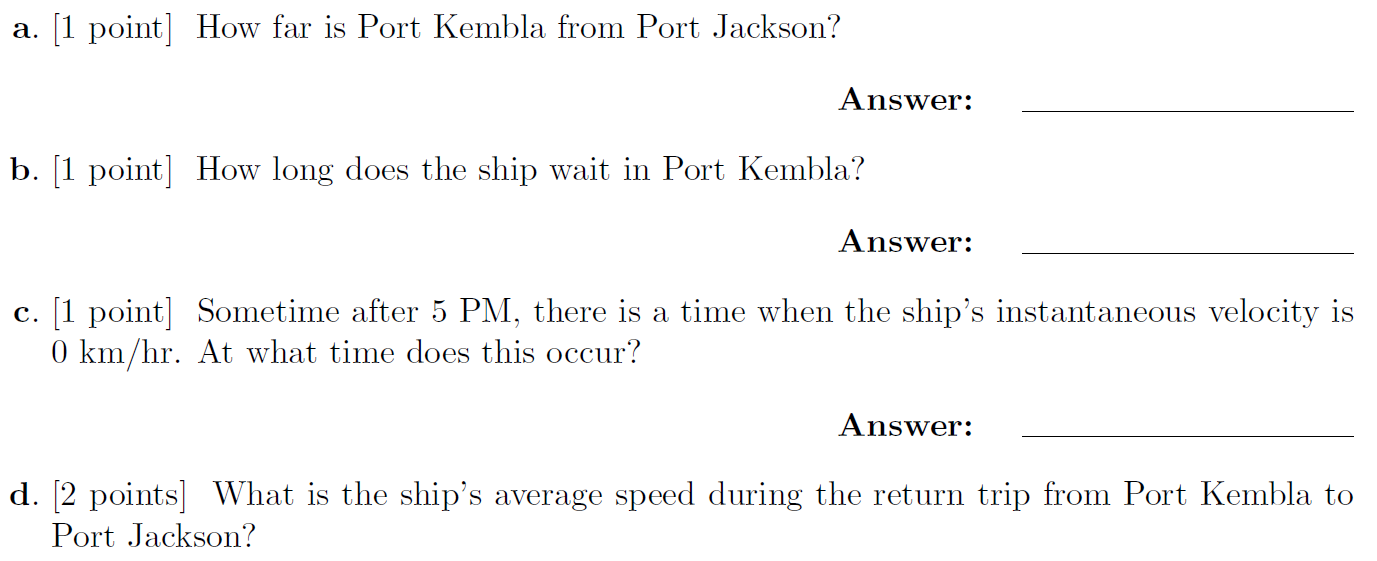






9.





*I turn away with fright and horror from the lamentable evil of functions which do not have derivatives.*

– Charles Hermite (in a letter to Thomas Jan Stieltjes)



Charles Hermite (1822 – 1901)