## MATH 202: VECTOR CALCULUS READING QUESTIONS FOR FRIDAY WEEK 3

## Reading assignment. CAES §4.4.

Problem 1. CAES 4.4.2.

*Problem* 2. The crucial line in the proof of the chain rule is

$$\mathcal{O}(o(h)) + o(\mathcal{O}(h) + o(h)) = \mathcal{O}(o(h)) + o(\mathcal{O}(h)) = o(h) + o(h) = o(h).$$

Explain each of the above equalities in your own words.