## MATH 202: VECTOR CALCULUS

 READING QUESTIONS FOR FRIDAY WEEK 3Reading 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.

