

Homework 14
Math 130 - Due May 5, 2011

Written Problems from P&B:

Section 8.1 (p. 190) # 1, 2, 3, 6, 8

Section 8.2 (p. 196) # 1, 3, 4, 6, 7

Section 8.3 (p. 200) # 5, 8, 9, 10, 13

Section 9.1 (p. 207) # 6, 9

Beckman activity 1K on page 12

Section 9.2 (p. 214) # 1, 6, 7

To be done as a 45-minute quiz. Please show all your work, you will be graded on the presentation of your solutions as well as the mathematics involved.

1. Prove that $(-1) \times a = -a$ for every integer a . Please say which interpretation of the “ $-$ ” sign you are using in each step.

2. Develop a teaching sequence for division with decimal numbers in the following manner: First, determine the number of steps in the teaching sequence. (Hint: we think at least 4. In other words, that means there are at least 4 different “levels of difficulty”.) Then, for each step write (and solve!) a specific problem which represents that step. At the end of each step, describe which additional concept was introduced in this step. (In other words, say how this step was harder than the previous step.)

If you do not know what we mean to ask by this question, ask us. It is unlikely you will get any credit for your work if you are not sure what the question is asking.