Assignment 1.

Given Sep 22 2000, due Oct 3 2000.

(1) Do exercises 9,10,11,12 from Chap 2 and 3,9,13,16 from Chap 3 of the text book.

(2) Let V consist of all nonzero rational forms $(P(x)/Q(x)$, $P \neq 0$, $Q \neq 0$, $(P, Q) = 1)$ equipped with the usual multiplication as the '+'. Is $(V, '+')$ a vector space? Why?