

## Math 215. Homework 9

due 04/7/08

1. Show that the definition of addition:  $\frac{a}{b} + \frac{c}{d} = \frac{ad+bc}{bd}$  gives result independent of a presentation of a rational number as a fraction. Give examples illustrating that adding rational numbers written as different fractions produces the same sum.
2. Show that there is no rational number which square is equal to 15.
3. Write 1.23457575757... as a ratio of two integers.
4. Problem 21 on p.185.