

I. Rational Functions (p.405):

1. $R(x) = \frac{P(x)}{Q(x)}$ both $P(x)$ & $Q(x)$ are polynomials

2. $Q(x) = 0 \Rightarrow R(x)$ is undefined
i.e., $D = \{x \mid Q(x) \neq 0\}$

II. Examples (pp.413-414): Exercises #12,28,40,48

III. Arithmetic w/Rational Expressions, Part 1:

1. Multiplication –

A. $\frac{p_1}{q_1} \times \frac{p_2}{q_2} = \frac{p_1 \times p_2}{q_1 \times q_2}$

B. Example (p.414): Exercise #58

HW: pp.413-415/Exercises #1-11(odd),15,27,29,31,
37,41,43,47,53,57