Math 4340 – Numerical Methods

Homework 1.3

Due Thursday, September 10, 2015

Section 1.3 – 1, 2, 4, 5, 12, 13

Additional problem: Determine the absolute and relative errors for the calculation of

p+q+r and p\*q\*r where $=\hat{p}+E\_{p}=\hat{p}(1+\hat{R}\_{p})$ , $q=\hat{q}+E\_{q}=\hat{q}(1+\hat{R}\_{q})$ and $r=\hat{r}+E\_{r}=\hat{r}(1+\hat{R}\_{r})$