Thank You So Much For Working With Me!!!

Name: Brian Jones   10/08/2013

(Redo for Problem 3 on Midterm #1) ←Due at 9:30am on 10/10/2013

3. (10 pts) Create an extended BNF grammar that describes real numbers. Use only one rule, in addition to the rules for <digit>. All of your acceptable numbers must have one decimal point and at least one integer before and after the decimal point. Allow for, but don't require, a + sign or − sign in front of the number. Allow as an option the use of scientific notation, so that 3.4e+08 and 0.45e-12 are real numbers. There should be exactly two digits following the + or − sign in the scientific notation.

Doesn't require a sign at all. Make sure to include possibilities for (+|−|E); No choice made

Answer:

$$[(+|-)]\{\langle digit\rangle\}^{+}.\{\langle digit\rangle\}^{+}[e(+|-)\langle digit\rangle\langle digit\rangle]$$