

EX.0.3.5, Sauer

Do the following sums by hand in IEEE double precision computer arithmetic, using the Rounding to Nearest Rule. (Check your answers, using Matlab.)

a. $(1 + (2^{-51} + 2^{-53})) - 1$

b. $(1 + (2^{-51} + 2^{-52} + 2^{-53})) - 1$