Due: 6 March

1. Carry out by hand the Gauss-Seidel solution for the following set of simultaneous equations [perform at least 4 iterations.]:
   \[ x_1 + 5x_2 - x_3 = 7 \]
   \[ 5x_1 + 3x_2 + 2x_3 = 4 \]
   \[ -x_1 + x_2 - 3x_3 = -1 \]