

Problem 3

see attached Matlab for calculations

SET A

$\sigma = 0.3 \leftarrow$  further digits are meaningless with error in this digit

$\bar{x} = 0.5 \leftarrow$  cannot have a mean with more precision than  $\sigma$  can give

SET D

$\sigma = 0.3 \leftarrow$  further digits are meaningless with error in this digit

$\bar{x} = 35.5 \leftarrow$  cannot have a mean w/ more precision than  $\sigma$  can provide.