

Problem 20.1:

Answers may slightly vary depending upon values read from the plot.

Part c) $MF = A_{ss}/A_{input} = 0.9/2.0 = 0.45$

Part e) Phase shift:

$$\phi = -64^\circ$$

Part j) Analytical solution:

$$x(t) \approx -1.4e^{-2t} + 0.91\cos(4t - 64^\circ)$$