

Problem 9-2 only consider the stability part of the problem.

Sketch the single and double sided amplitude and phase spectra for the following signals.

a) $x(t) = 6 \cos(2\pi t + \frac{\pi}{4})$

b) $x(t) = 14 \cos(10\pi t - 0.8) + 28 \cos(20\pi t - 1.6)$

c) $x(t) = 5 \cos(\pi t - \frac{\pi}{6}) - \sin(2\pi t - \frac{\pi}{3})$