## PROBLEM:

Consider the following system.

is given by the formula 
$$x(t) = 21 + 10\cos(2200\pi t + \pi/2) - 5\cos(5500\pi t - \pi/4),$$

what condition must be satisfied by the sampling rate,  $f_s = 1/T_s$ , such that y(t) = x(t)?

If x(t) is given by the formula