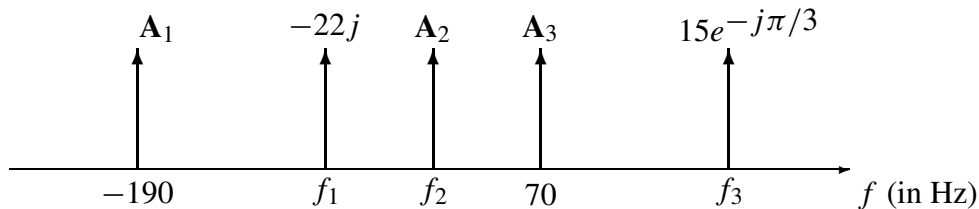


PROBLEM:

The two-sided spectrum representation of a real-valued signal $x(t)$ is shown below, but it is missing some information:



Assume that the time signal $x(t)$ for this spectrum is real-valued, and that the DC value of $x(t)$ is zero.

(a) Determine the values for the missing frequencies (in Hz):

(b) Determine the values for the missing complex amplitudes:

(c) Write an equation for $x(t)$ using real-valued quantities only.