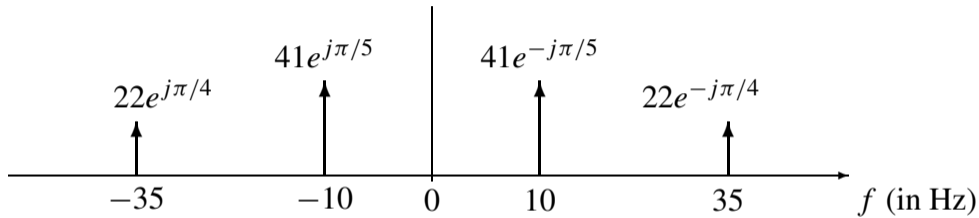


PROBLEM:

A signal $x(t)$ has the two-sided spectrum representation shown below.



- Write an equation for $x(t)$. Make sure to express $x(t)$ as a real-valued signal.
- If the signal is sampled with a spacing of $T_s = 50$ millisecc, sketch the “digital” spectrum of this signal. Indicate the complex phasor value at each frequency. Only the range $-\pi < \hat{\omega} \leq \pi$ needs to be shown.