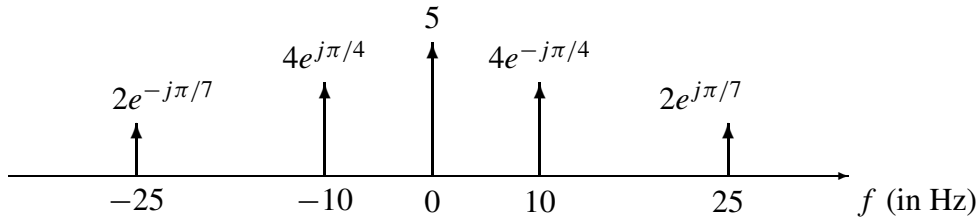


PROBLEM:

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



- Write an equation for $x(t)$.
- Is $x(t)$ a periodic signal? If so, what is its period?
- Explain why “negative” frequency is needed in the spectrum.