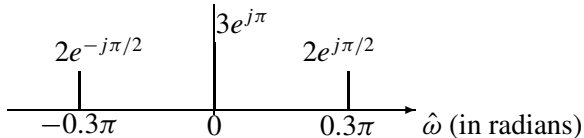


## PROBLEM:

A discrete-time signal  $x[n]$  has the two-sided spectrum representation shown below.



- Write an equation for  $x[n]$ . Make sure to express  $x[n]$  as a real-valued signal.
- Determine the formula for the output signal  $y[n]$ .