

1. Explain characteristics of frequency modulation (FM) compared to Amplitude modulation (AM).
2. Assume that you have the message signal shown in Figure 1.

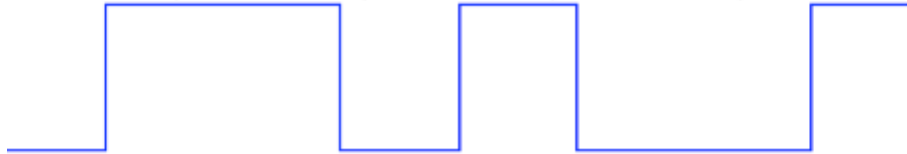


Figure 1: FM message signal.

If you are using frequency modulation (FM) in order to generate a modulated signal, what would be a resulting modulated signal? You may choose and use your own carrier frequencies for the FM.