

VE216

Introduction to Signals and Systems

HOMEWORK 5 ATTACHED PAGES

April 24, 2020

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1. (b) The graph of my answer as a function of t is

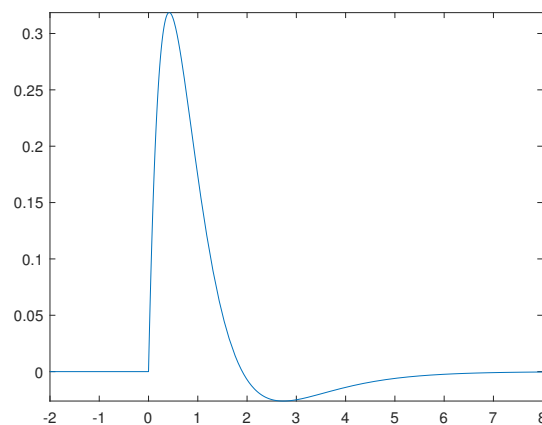


Figure 1. 1(b)-1.

The graph generated by MATLAB impulse is

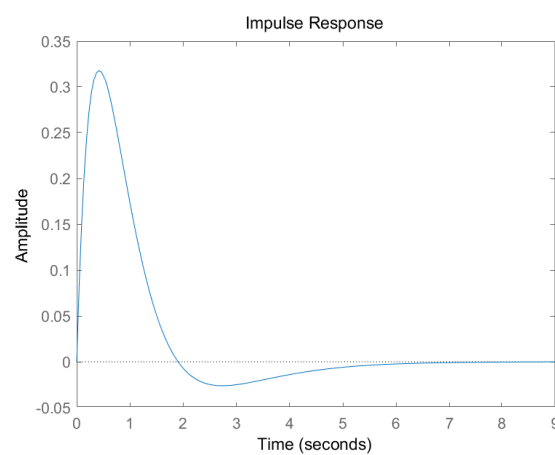


Figure 2. 1(b)-2.

2. (a) The sketches of $X_p(\omega)$ for $-9\pi \leq \omega \leq 9\pi$ for $\omega_0 = \pi$, 2π , 3π , and 5π are respectively

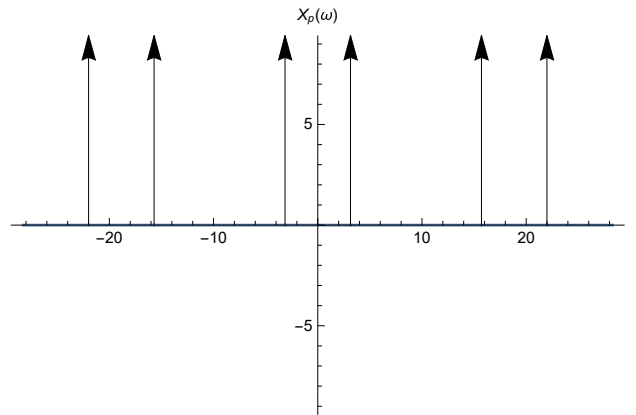


Figure 3. 2(a)i.

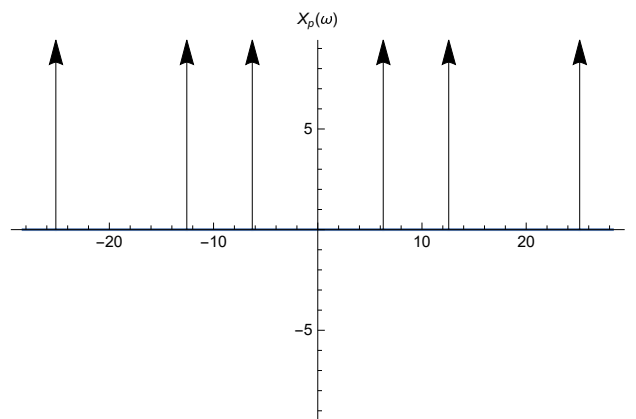


Figure 4. 2(a)ii.

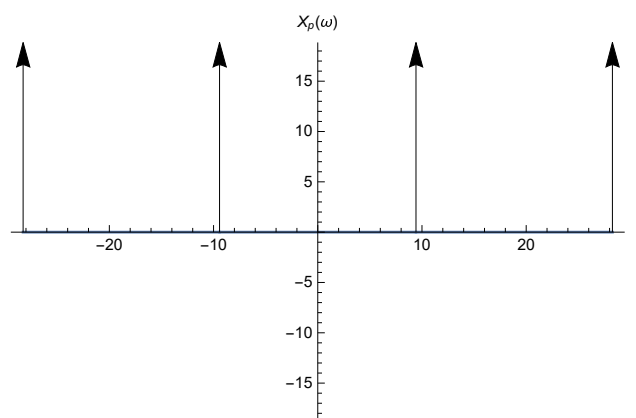


Figure 5. 2(a)iii.

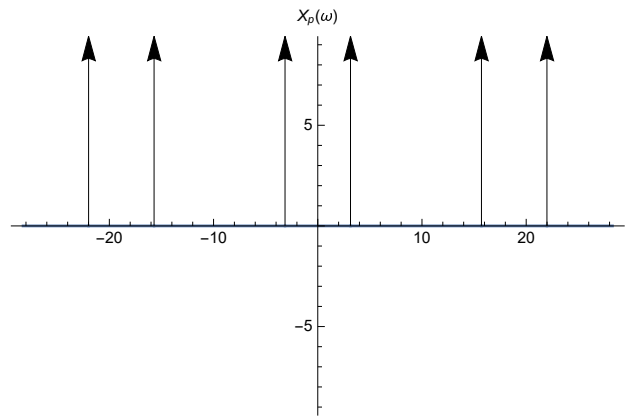


Figure 6. 2(a)iv.

11. (b) The sketch of the efficiency of the modulated signal as a function of the modulated index m is

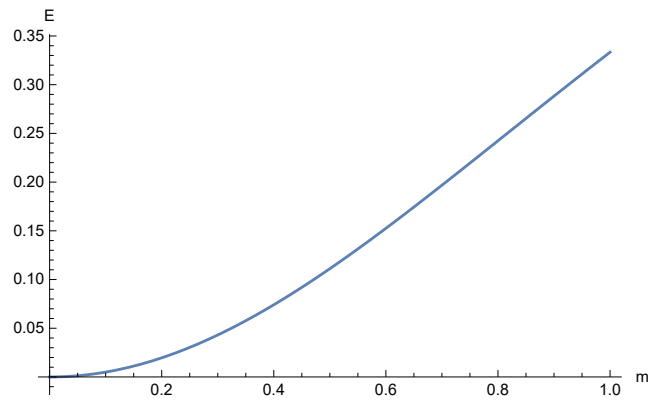


Figure 7. 11(b).