

PROBLEM:

The signal $x(t)$ is formed from the signal $v(t)$ by AM modulation. Assume that

$$v(t) = 3 + 3 \cos(5t + \pi/3)$$

and that

$$x(t) = v(t) \cos(20t).$$

- Draw the spectrum for $v(t)$.
- Draw the spectrum for $x(t)$.