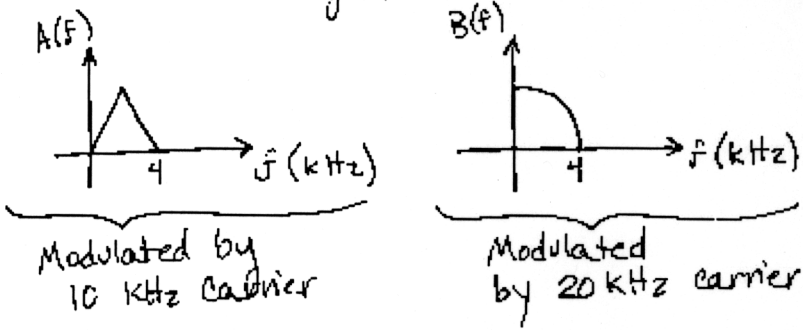
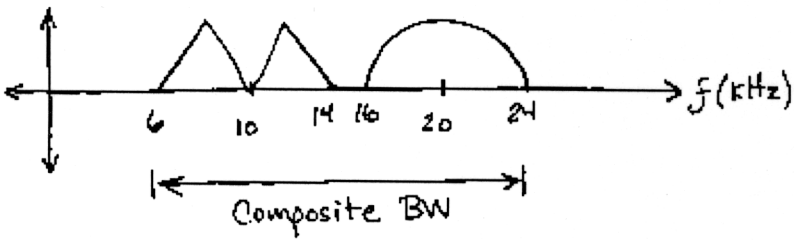
8.3: 2 signals A & B

assume the following spectra:



composite spectrum:



$= 24\,kHz - 6\,kHz = 18\,kHz$

$\therefore f_{SAMP} = \cancel{2\,BW = \boxed{36\,kHz}}$ $\quad 2 f_{max} = 48\,kHz$

$PCM_{BW} = \cancel{10 \cdot f_{samp} = \boxed{360\,kHz}}$ $\quad 10 f_{samp} = 480\,kHz$