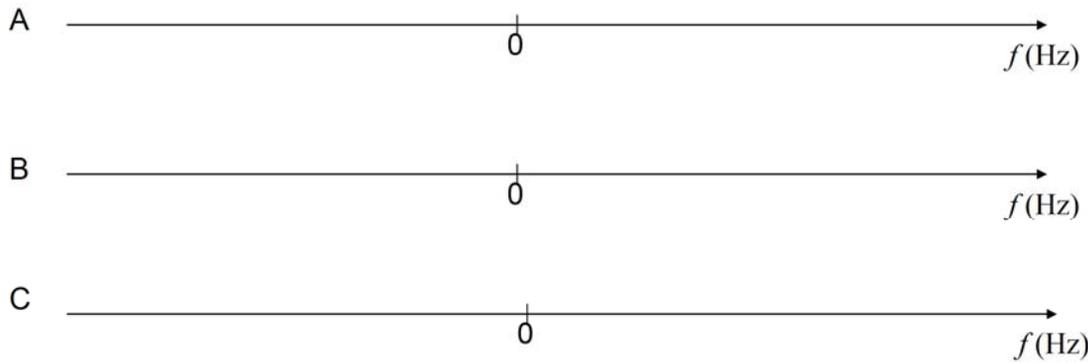
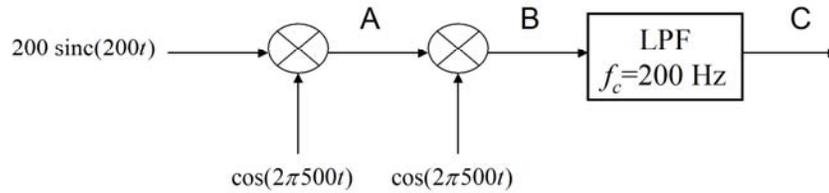


Name: _____

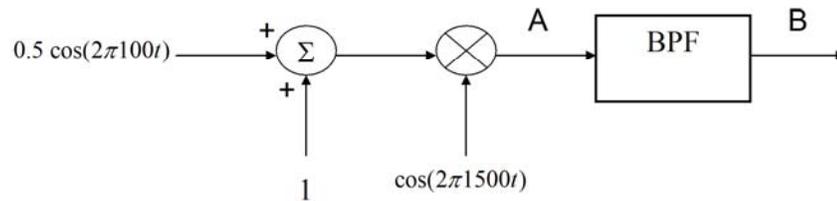
EE322 Fall 2008 Quiz 9

1. Given the system shown below, sketch the frequency spectrum at points A, B and C on the axes below.



(turn this page over)

2. Given the system below, answer the questions that follow.



What is the average power of the carrier at point A?

What is the sideband power at point A?

If the bandpass filter will pass frequencies from 1350 Hz to 2000 Hz, what is the total average power at point B?

If the bandpass filter will pass frequencies from 1000 to 1550 Hz, what is the total average power at point B?

If the bandpass filter will pass frequencies from 500-1000 Hz, what is the total power at point B?

Bonus: Name the nations of 4 of the 5 major armies involved in the Battle of Leipzig.