

### **EE322 Fall 08 Homework Problem Set 39 (PS39)**

Be sure to show your work.

1. Text, Problem 12-45. Note the following trigonometric identities may be useful:

$$\cos A \cos B = \frac{1}{2} \cos(A + B) + \frac{1}{2} \cos(A - B)$$

$$\sin A \cos B = \frac{1}{2} \sin(A - B) + \frac{1}{2} \sin(A + B)$$

$$\sin(-A) = -\sin(A)$$

$$\cos(-A) = \cos(A)$$

2. Text, Problem 12-48.