

TCOM 500: Modern Telecommunications
Prof. B.-P. Paris
Homework 7
Due: April 1, 2010

Reading Sections 3.2 and 5.2 in Forouzan; review class notes.

Problems 1. Problem 3.16

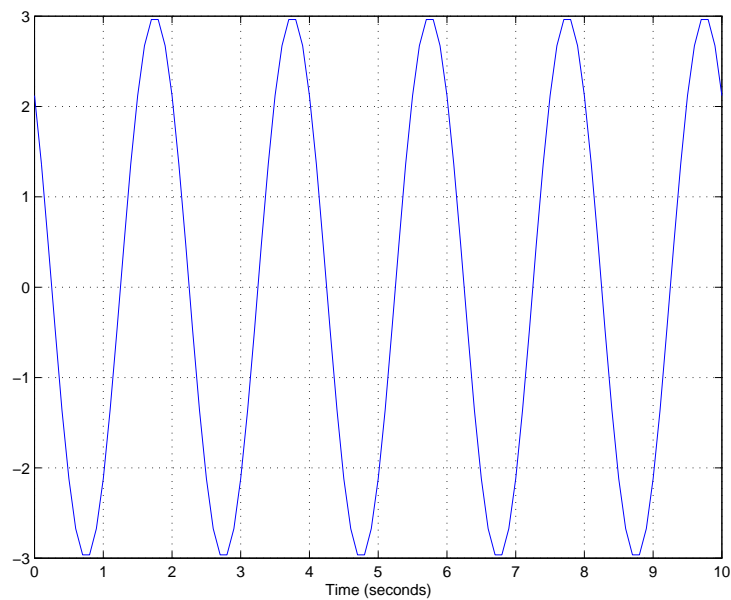
2. Problem 3.17

3. Problem 3.18

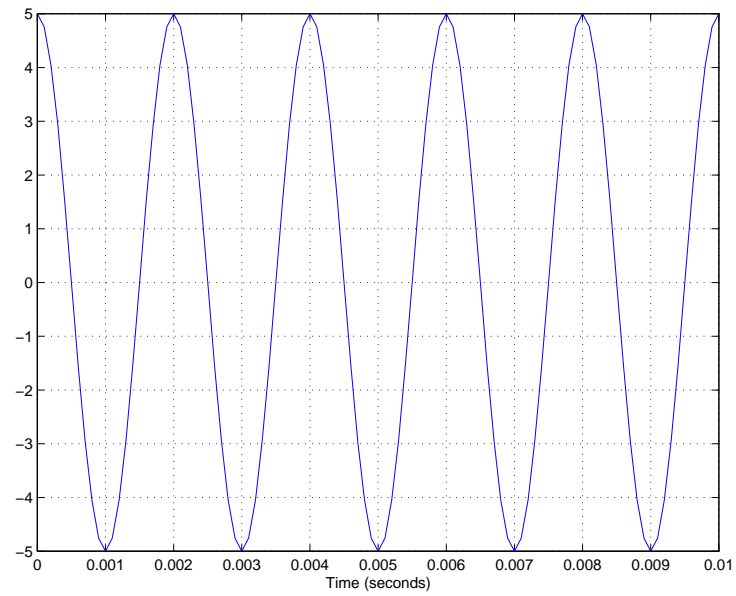
4. Problem 3.19

5. **Sinusoids**

(a) What are the amplitude, frequency, and phase of the sinusoid in the diagram below.



- (b) What are the amplitude, frequency, and phase of the sinusoid in the diagram below.



(c) Plot the signal $x(t) = 2 \cos(2\pi 5t + \frac{\pi}{2})$ in the diagram below.

