

# EE 320 Communications Principles

Home Work # 2 (1st Semester 1432/1433H G2011)

Assigned: Wednesday, October 12, 2011

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## Question 1

Page: 110      Drill Problems: 3.1, 3.2 , 3.3,

## Question 2

Problem 3.17, Textbook, Page 148

## Question 3

Problem 3.18, Textbook, Page 148

## Question 4

Problem 3.19, Textbook, Page 148

Use Matlab to plot  $m(t)$  and the modulated signal for all three cases. Comment on each result. Use the time vector between -10 sec to 10 sec i.e. use in Matlab syntax `t=-10:1./4000:10;`

Use :  $A_c=1$  and  $f_c=10$  Hz (Amplitude and Frequency of the Carrier signal)