**NET206**

Assignment #1

1 semester 1440-2019

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| **Name:** | **ID:** |

1. **Use the Scope Block to view the following 2 signals at the same time:**
   * **a sin wave that has ω = 2π , A = 8v and φ = π**
   * **a square wave that has f = 6Hz and A = 3v**
2. **Design a AM modulation using the following signals:**

* *m(t*) = *3 sin*(*8πt*)  *c*(*t*) = *2 sin*(*200πt*)
* **What is the value of μ?**

At the Way#2 of modulator block diagram.

**Note**: SAM(t) = [Ac + m(t) ] c(t)

1. **Design a FM modulation using the following signal:**

* m(t)= sin (2πt) c(t) = cos (2π100t) kf = 30Hz/v

1. **Generate a PM modulated signal where the message signal m(t) = 2 sin(7πt), carrier signal has frequency 50 Hz and the phase deviation is 100**π