Barak Barclay

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ECE2610-001

Lab 1

**Section 3:**

1. >> tt = -.00025:.0000025:.00025;
2. >> tt = -.00025:.0000025:.00025;

>> T = .00025;

>> D = 1;

>> M = 9;

>> tm1 = (37.2/M)\*T;

>> tm2 = -(41.3/D)\*T;

>> A1 = 21;

>> A2 = 1.2\*A1;

>> t = tt;

>> x1 = A1\*cos(2\*pi\*4000\*(t-tm1));

>> x2 = A2\*cos(2\*pi\*4000\*(t-tm2));

>> subplot(3,1,1), plot(t,x1)

>> subplot(3,1,2), plot(t,x2)

1. >> x3 = x1+x2;

>> subplot(3,1,3), plot(t,x3)

**Section 3.2:**

Using constants as asked: x1a = real(X\*exp(j\*w\*(t-tm1)));

Without constants: x1a = real(21\*(exp(j\*8000\*pi))\*exp(j\*8000\*pi\*(t-tm1)));