

**Islamic University of Gaza**

**Faculty of Engineering**

**Computer Engineering Department**

**Signals & Linear Systems Lab (EELE- 3110)**

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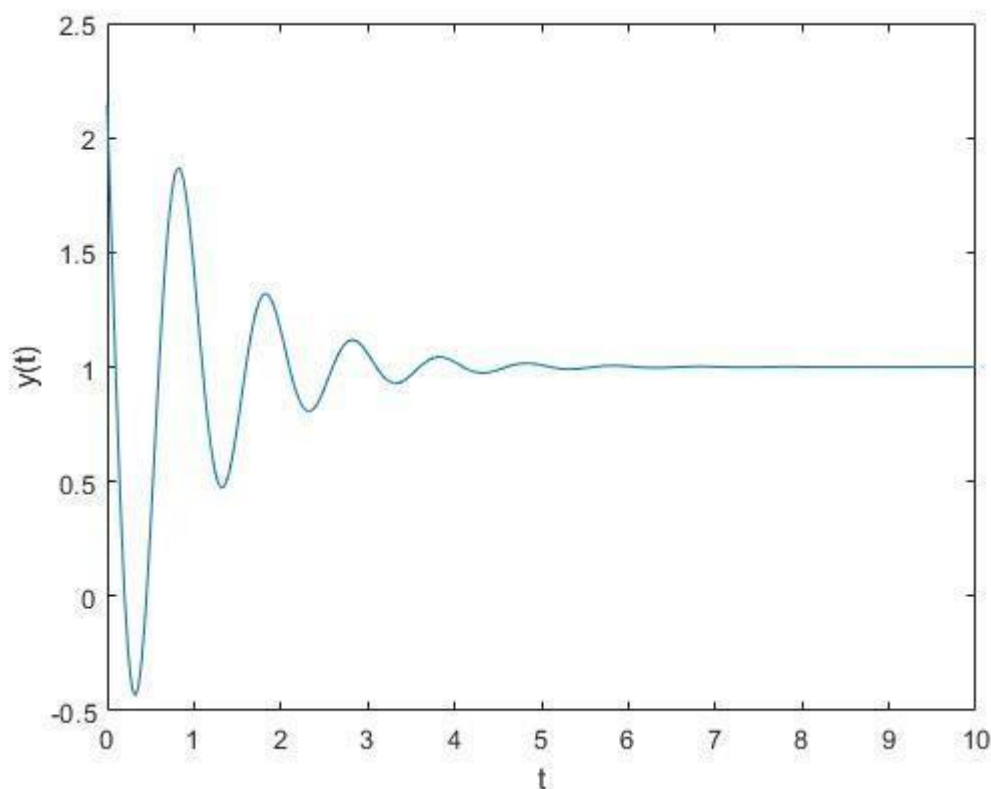
**Lab 2**

**Eng. Nael dokhan**

**Question 1:** Plot the following using *plot* function

$$y(t) = 1 - 2e^{-t} \sin(2\pi t - 35^\circ) \quad 0 \leq t \leq 10$$

```
t = 0:0.01:10; plot(t, 1 - (2.* exp(-t).* sin(2 * pi * t - (35
* pi / 180)))) xlabel('t') ylabel('y(t)')
```



**Question 2:** Write the code that make the following plot

```
x = 0:0.1:10; x1 = sin(x);
x2 = sin(2 * x); x3 = sin(4
* x); x4 = sin(8 * x);
subplot(2,2,1) plot(x, x1);
title('subplot 1 : sin(x)')
subplot(2,2,2) plot(x, x2);
title('subplot 2 :
```

```
sin(2x)') subplot(2,2,3)
plot(x, x3); title('subplot
3 : sin(4x)') subplot(2,2,4)
plot(x, x4);
title('subplot 4 : sin(8x)')
```

