**Activity Questions**

***1 point***

After watching Lecture 1 till 4:03, try to answer this question:

A system is called linear if it satisfies the function(s)

 f(x1+x2) = f(x1)+f(x2)

 f(ax)=eax

 f(ax)=a.f(x)

 f(ax)=xa

***1 point***

After watching Lecture 1 till 14:38, try to answer this question:  
Identify non-anticipatory system(s) from the given options?

 Non-causal system

 Causal system

 Motor or generator

 Y(t) = f(x(t),x(t-1),x(t-2)..)

***1 point***

After watching Lecture 1 till 16:27, try to answer this question:  
In summary, the control system is the one which

 Regulates output

 Regulates input

 Alters input

 Alters output

***1 point***

After watching Lecture 1 till 17:57, try to answer this question:  
Define the use of feedback in control system

 Senses the output

 Gives as input to plant

 Gives input to the controller

 Enables the desired performance only in absence of disturbance