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| 1. Determine if the signal given is linear, time-invariant, causal, and/or memoryless. y[n+1] + y[n] = 2x[n+1] - x[n]
2. For the series RLC circuit in the figure below find the input/output differential equation for y(t) = i(t).

https://angel.grantham.edu/AngelUploads/QuestionData/718a679f-cd1f-42f7-b9a1-1f088ac8da50/T01-Q13.png#{07AA11E4-0186-4D8C-9897-E322544F0952} |

and y[n+2]-1.9y[n+1]+0.9425y[n]=0.01x[n] Bottom of Form