Classwork 20 PA24 VAH CPE381	Name of the Studento
Instanctore Rahul Bladam?	lotal Marks: 10 points
Q1. Kemember jinfisite Ge	ometaic progressin is written as
Now, Consider a y[n]=	System; [(χ(n+1) + χ(n) + χ(n-1))
D Is the System why or wi	given by y[n] causal? by not? (2.5 points)
(3) To it BIBO	stable? (2.5 points)

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Qe: Sampled signal can woither al:

**R(t) = { **a(nTe) S(t-nTe) **}

Rowing the delayed version of a signal subjuiction of phase change (or a multiplication by complete exponential), woulk down wen exposession X(s) where X(s) is the Laplace transferm of x(t)

Given L(S(t)) = 1

L(x(t-A)) = X(s)e^{-As}

(2.5 point)

In the expression of XG you obtain, do variable substitution by assuming a new variable $z=e^{sts}$, and write XG or a function of z. (2.5 points)