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Theoretical coloutations:

$$y[n] = \frac{1}{6}y[n-1] + x[n]$$

$$y[n] - \frac{1}{6}y[n-1] + x[n]$$

$$Taking = x on either sider$$

$$Y(z) - \frac{1}{6}Y(z)z^{-1} = x(z)$$

$$Y(z) - \frac{1}{6}Y(z)z^{-1} = x(z)$$

$$Y(z) = \frac{1}{(1-\frac{1}{6}z^{-1})}$$

Then Frequency suspense of system is obtained when I is replaced with ear

$$|H(e^{j\alpha})| = \frac{1}{1 - \frac{1}{2}e^{-j\alpha}} = \frac{1}{1 - \frac{1}{2}(\cos \alpha - j\sin(\alpha))}$$

$$|H(e^{j\alpha})| = \frac{1}{\sqrt{(1 - \frac{1}{2}\cos \alpha)^2 + (\frac{1}{2}\sin \alpha)^2}} = 0$$

By using @ we get mognitude ousponse.

By using 3 we get phase supposse.

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Experiment No. Date Name of the Experiment Page No.

Theopetical calculations: y[n] = x[n] - 1/4 x[n-1] Taking IT on either sides we get Y(Z) = X(Z) - 1/4 X(Z) Z · Y(2) = X(2)(1-4,2-1) $\frac{Y(2)}{X(2)} = 1 - \frac{1}{4} Z^{-1}$ we know that H(Z) = Y(Z) X(Z) H(Z) = 1-14Z-1 -0 Then forequency presponse is obtained when I is explaced with ein.

Hein) = 1 - 1/2 e in - 9

Forequency of a system.

Presponse 1 HCein) = V(1-4 cos) + (4 sins) 2 -3 Egun @ will give the mognitude response for different values of s. * H(e) = tan' (Kusinin) - @ Egn D willgive the phase presponse for different values of s.

