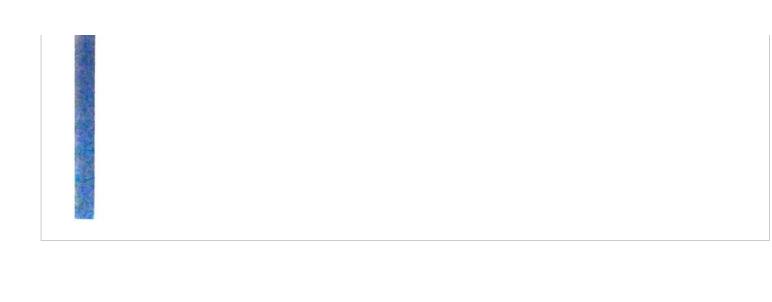
## Matt Maloney

Wednesday, February 23, 2022 11:05 PM

Not bad. Need practice on time donain analysis.



Matthew Malory Fram   AS7487525  IA. YEND XEND 1/25 NO NO NO NO NO NO NO YES  YEND 20 XEND NO YES NO NO NO NO NO YES  YEND COS(ZTI YEND) NO YES YES YES YES YES YES	
B we RT $f_{s} = 100 \text{ Hz} - \frac{1}{1} = 77.0.01$ $w = 2\pi = 7 \frac{2\pi}{100} = \Omega 2001$ $\Omega = 2\pi \frac{2}{100} = \Omega 2001$ $\Omega = 2\pi \frac{2}{100} = \Omega 2001$ $\Omega = 2\pi \frac{2}{100} = \Omega 2001$	
C ideal sampling Frequency is n= 00 04n L00 for X(t)=V(t)	
D. $x[n] = 38[n] + 8(n-17)$ y[n] = h[n] * x[n] = 3h[n] + h[n-17] $y(n) = \{6, -1, 2, 1\}$ G = 3h(0) -1 = 3h[1] + 2 2 = 3h(2) + (-1) h(2) = 1 1 = 3h(3) + 1 1 = 3h(3) + 1 1 = 3h(3) + 1 1 = 2	
$h(n) = Z - 1 + 1 = Z \times$ $E. iiiV$	



E - 5) You can just write Total = ZIR+ZSR for partial points.

Show your knowledge.

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- A. Y(z) 3 = Y(n) 3 Y(z) = X(z) + z X(z) y(n) - 3 y(n-1) - 2 y(n-z) = X(n) + x(n-1) ~
- B. Gain is positive (-1.5)

$$(1-|(z)| = \frac{z^2+2}{z^2-z^2} = \frac{z(z+1)}{(z-0.z)(z-0.4)}$$

- D ROC 121 \$0.2 171 \$0.4
  [3] 20.4 (3)
- E. YCS System is stable from all poles inside of

$$F. \times (n) = \frac{7}{5} u(n) + \frac{1}{5} u(n) \times V_{Se} \times \lambda(z) = \frac{\gamma(z)}{H(z)}$$

then finding x(1) is ensy.

At least for this quatron