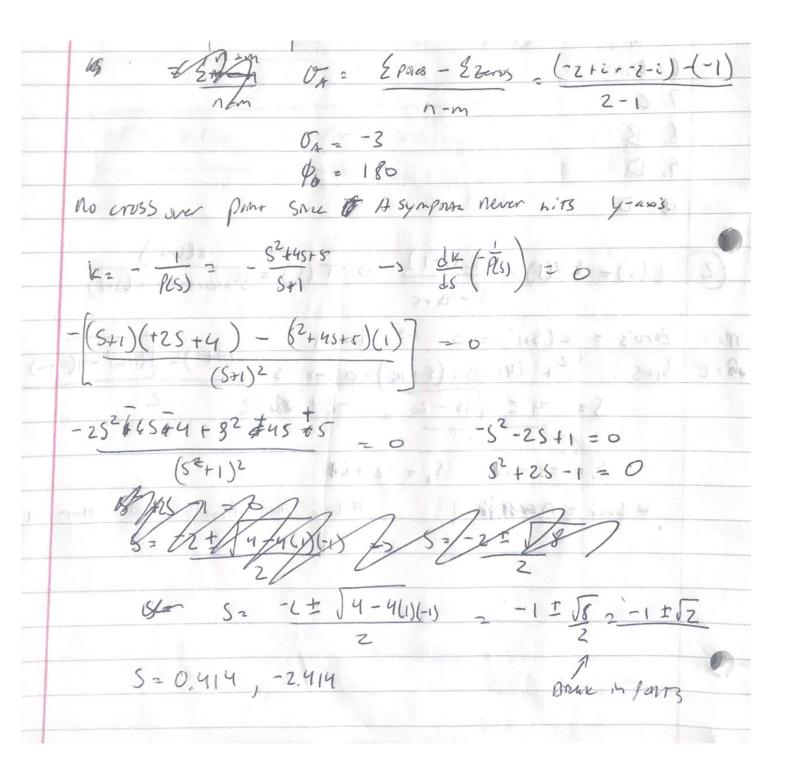
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	L. A.
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	L(S) = KP(S) = K(S+1) -> T(S) = 52+45+5 + K(S+1)
	$L(s) = k P(s) = \frac{k(s+1)}{S^2 + 4s + 5} - T(s) = \frac{k(s+1)}{S^2 + 4s + 5} + k(s+1)$ $\frac{24\pi o's}{S^2 + 4s + 5} = \frac{k(s+1)}{S^2 + 4s + 5} + \frac{k(s+1)}$
	$L(s) = k P(s) = \frac{k(s+1)}{S^2 + 4s + 5} - T(s) = \frac{k(s+1)}{S^2 + 4s + 5} + k(s+1)$ $\frac{24\pi o's}{S^2 + 4s + 5} = \frac{k(s+1)}{S^2 + 4s + 5} + \frac{k(s+1)}$
	$L(s) = kP(s) = \frac{k(s+1)}{S^2 + 4s + 5} - \frac{k(s+1)}{S^2 + 4s + 5}$ $\frac{2ero's}{S^2 + 4s + 5} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{2ero's}{S^2 + (4+k)S + (5+1k) = 0} - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k + 5} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k + 5} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k + 5} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k + 5} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k + 5} = 0 - \frac{1}{S^2 + 4s + 5} + \frac{1}{k(s+1)}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$ $\frac{1}{S^2 + 4k + 1} = 0 - \frac{1}{S^2 + 4k + 1}$
	$L(s) = kP(s) = \frac{k(s+1)}{S^2 + 4s + 5} - k(s+1)$ $\frac{2ero's}{S^2 + 4s + 5} = \frac{k(s+1)}{S^2 + 4s + 5} + k(s+1)$ $\frac{2ero's}{S^2 + (4+k)} = 0 - \frac{1}{S^2 + 4s + 5} + k(s+1)$ $\frac{1}{S^2 + 4s + 5} + k(s+1) = 0 - \frac{1}{S^2 + 4s + 5} + k(s+1)$ $\frac{1}{S^2 + 4s + 5} + k(s+1) = 0 - \frac{1}{S^2 + 4s + 5} + k(s+1)$ $\frac{1}{S^2 + 4s + 5} + k(s+1)$
	$L(s) = k P(s) = \frac{k(s+1)}{S^2 + 4s + 5} \rightarrow L(s+1)$ $\frac{24\pi o's}{S^2 + 4s + 5} = \frac{k(s+1)}{S^2 + 4s + 5} \rightarrow L(s+1)$ $\frac{24\pi o's}{S^2 + (4+k)S + (5+k) = 0} \rightarrow S = \frac{(4+k)^{\frac{1}{2}}}{(4+k)^2 - 4(5+k)}$ $\frac{3}{S^2 + 4} = \frac{16 - 20}{S^2 - 2 + 14}$ $\frac{3}{S^2 + 2 - 14} = \frac{3}{S^2 - 2 + 14}$ $\frac{3}{S^2 + 2 - 14} = \frac{3}{S^2 - 2 + 14}$ $\frac{3}{S^2 + 2 - 14} = \frac{3}{S^2 - 2 + 14}$ $\frac{3}{S^2 + 2 - 14} = \frac{3}{S^2 - 2 + 14}$ $\frac{3}{S^2 + 2 - 14} = \frac{3}{S^2 - 2 + 14}$ $\frac{3}{S^2 + 2 - 14} = \frac{3}{S^2 + 2 + 14}$
	$L(s) = kP(s) = \frac{k(s+1)}{S^2 + 4s + 5} - k(s+1)$ $\frac{2ero's}{S^2 + 4s + 5} = \frac{k(s+1)}{S^2 + 4s + 5} + k(s+1)$ $\frac{2ero's}{S^2 + (4+k)} = 0 - \frac{1}{S^2 + 4s + 5} + k(s+1)$ $\frac{1}{S^2 + 4s + 5} + k(s+1) = 0 - \frac{1}{S^2 + 4s + 5} + k(s+1)$ $\frac{1}{S^2 + 4s + 5} + k(s+1) = 0 - \frac{1}{S^2 + 4s + 5} + k(s+1)$ $\frac{1}{S^2 + 4s + 5} + k(s+1)$
Mz 1 499 = 2.	$L(s) = k P(s) = \frac{k(s+1)}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2 \text{tro's}}{s^2 + 4s + s} = \frac{k(s+1)}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2 \text{tro's}}{s^2 + 4s + s} = \frac{k(s+1)}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2 \text{tro's}}{s^2 + 4s + s} \rightarrow k(s+1) = 0 \rightarrow s = -(4+k) \pm \sqrt{(4+k)^2 - 4(s+k)}$ $\frac{2}{s^2 + 4 \pm \sqrt{(6-20)} - 2 \pm 2k i 2} = 2$ $\frac{2}{s^2 + 2 + i k} = \frac{2}{s^2 + 2 + i k}$ $\frac{2}{s^2 + 2 + i k} = \frac{2}{s^2 + 2 + i k}$ $\frac{2}{s^2 + 2 + i k} = \frac{2}{s^2 + 2 + i k}$ $\frac{2}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2}{s^2 + 4s + s}$
Mz 1 499 = 2.	$L(s) = kP(s) = \frac{k(s+1)}{S^2 + 4s + 5} - 1$ $\frac{2cro's}{S^2 + 4s + 5} = \frac{k(s+1)}{S^2 + 4s + 5} + k(s+1)$ $\frac{2cro's}{S^2 + (4+k)S + (5+k) = 0} \rightarrow S = \frac{(4+k)^{\frac{1}{2}}}{(4+k)^2 - 4(5+k)}$ $S = \frac{4}{16} + \frac{1}{16 - 20} = \frac{-2 + 2k i2}{2}$ $S_1 = \frac{-2 - ik}{S_2} + \frac{1}{16 - 20} = \frac{-2 + ik}{S_2 - 2 + ik}$ $\frac{2}{16 - 20} + \frac{2}{16 - 20$
Mz 1 499 = 2.	$L(s) = k P(s) = \frac{k(s+1)}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2 \text{tro's}}{s^2 + 4s + s} = \frac{k(s+1)}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2 \text{tro's}}{s^2 + 4s + s} = \frac{k(s+1)}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2 \text{tro's}}{s^2 + 4s + s} \rightarrow k(s+1) = 0 \rightarrow s = -(4+k) \pm \sqrt{(4+k)^2 - 4(s+k)}$ $\frac{2}{s^2 + 4 \pm \sqrt{(6-20)} - 2 \pm 2k i 2} = 2$ $\frac{2}{s^2 + 2 + i k} = \frac{2}{s^2 + 2 + i k}$ $\frac{2}{s^2 + 2 + i k} = \frac{2}{s^2 + 2 + i k}$ $\frac{2}{s^2 + 2 + i k} = \frac{2}{s^2 + 2 + i k}$ $\frac{2}{s^2 + 4s + s} \rightarrow k(s+1)$ $\frac{2}{s^2 + 4s + s}$



	Pls) = (S+1) 1	a feat stimb and	
	(S-2-i)(S-2+i) = ald (2+25+1) 2		
	P'(S) = (S+2-i)(S+1)	5752 (S+1 / 85 ON M)	
	(S+2#i)(S+2+i)		
	CHA ALLANDER.	Alleria & Salar	
	p' - + 1	E + 100 c - 100	
4-154	2363		
E	(P' = LN' - LD' = Tan-1	(-T) - tan-1 (2) = -45-9	
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the second	-2+j: 62 = 225°	-2.414	
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		C+ -20	
-	The state of the s	(1250	
		(-2-1)	

a. L(s) = KP(s) = - K S(s2+25+5) T(5) = K 5(52+25+5) + K a. Zeros: m=0 S=none. WMM Pures: S(52+25+5) + 1c = 015 83+252+55+16 20 of kno S20 1-52+25+5=6011-50 S= -2 + 4-46565) = -1 + Ej # Lovi = 3 2 Loui -> 00 = 3 OA = EP - 28 = 0-1+20-1-65-n-m = 195 = -2/3 Ø= (2K+1) (180) = 100 60° 186 -2i \$ 0 = 60. 300 P 3 360°

