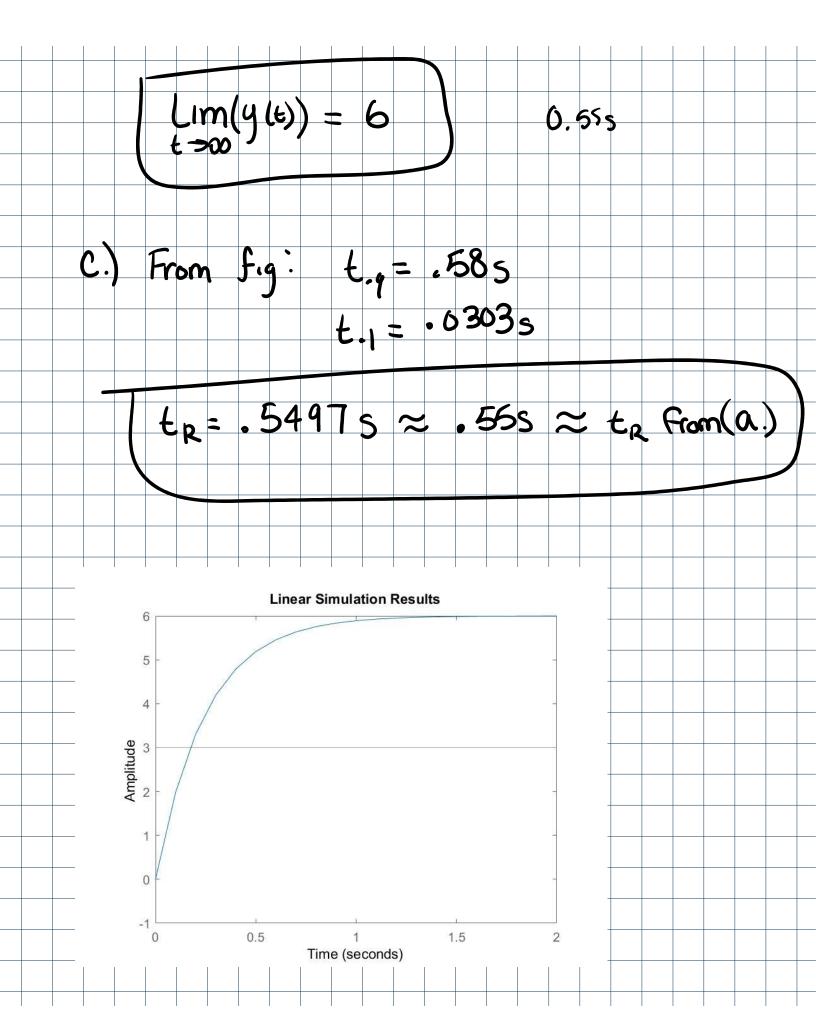
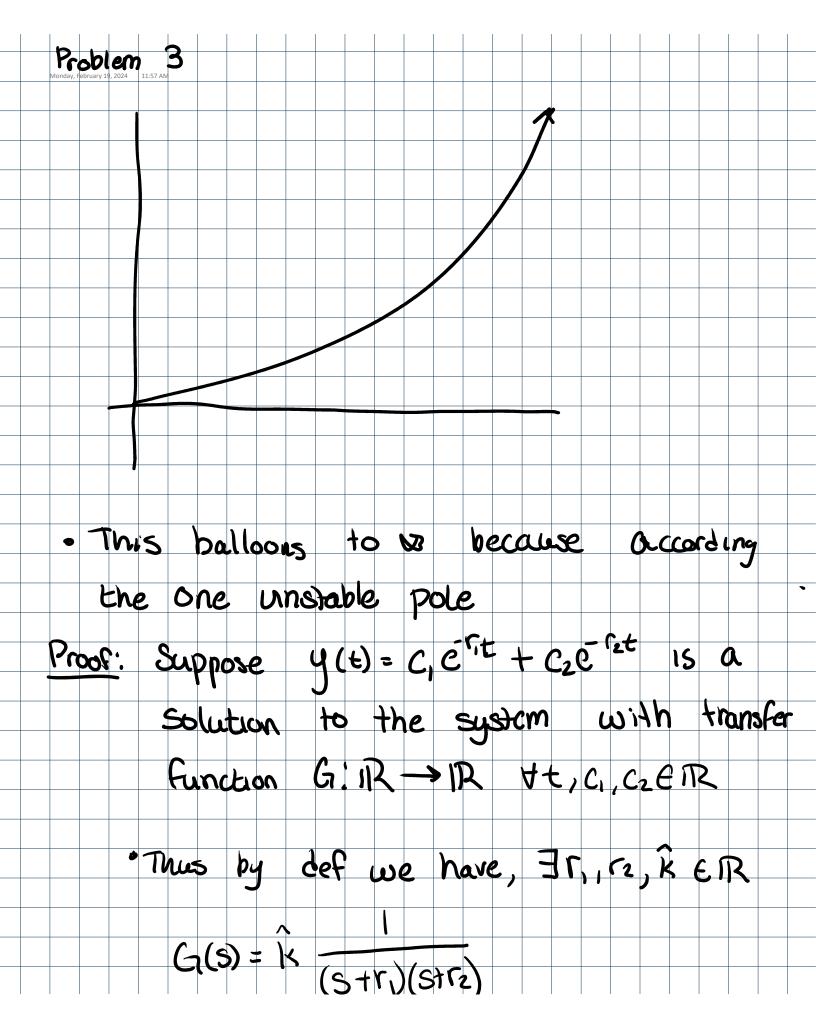
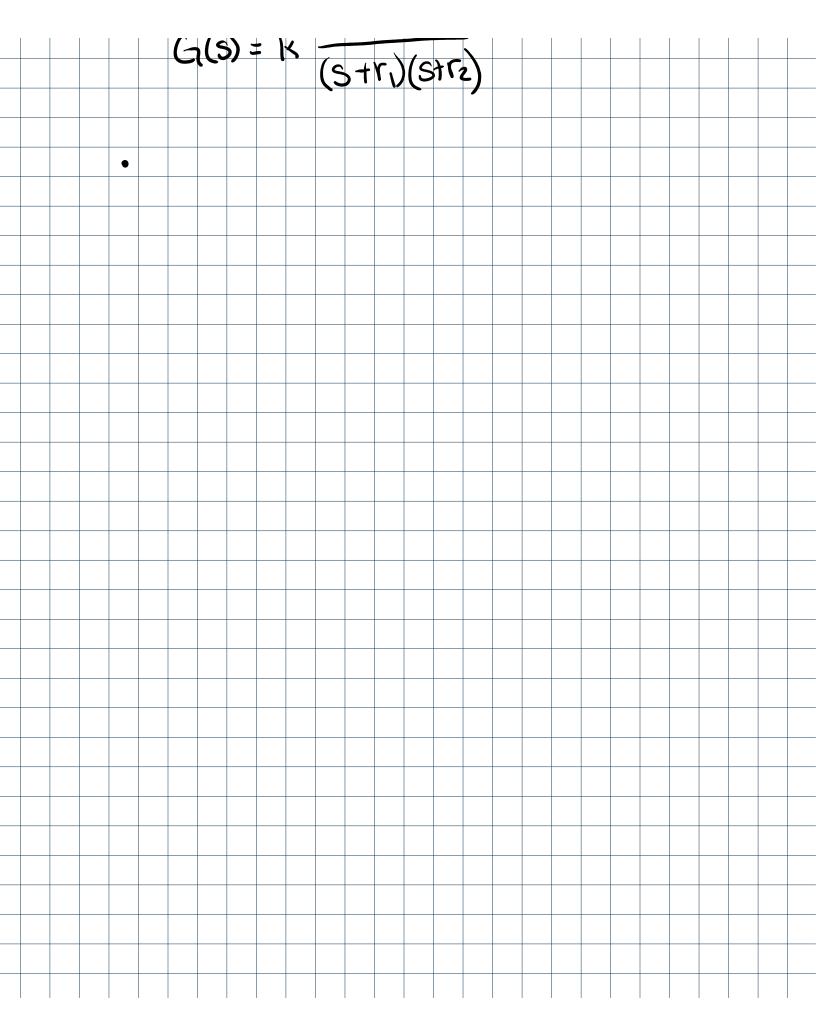


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$$G_{1}(s) = \frac{36}{s^{2}+6s+36} = \frac{1}{s^{2}+\frac{1}{10}s+\frac{1}{10}}$$

$$G_{2}(s) = \frac{1}{36}s^{2}+\frac{1}{6}s+1 = \frac{1}{10}\frac{\frac{1}{10}}{\frac{1}{10}s+\frac{1}{10}}$$

$$M = \frac{1}{36}b = \frac{1}{16}k = 1$$

$$W_{1} = \frac{1}{36}b = \frac{1}{16}k = 1$$

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$$W_{3} = \frac{1}{16}\frac{1}{16}\frac{1}{16}\frac{1}{16}$$

$$W_{3} = \frac{1}{16}\frac{1}{16}\frac{1}{16}$$

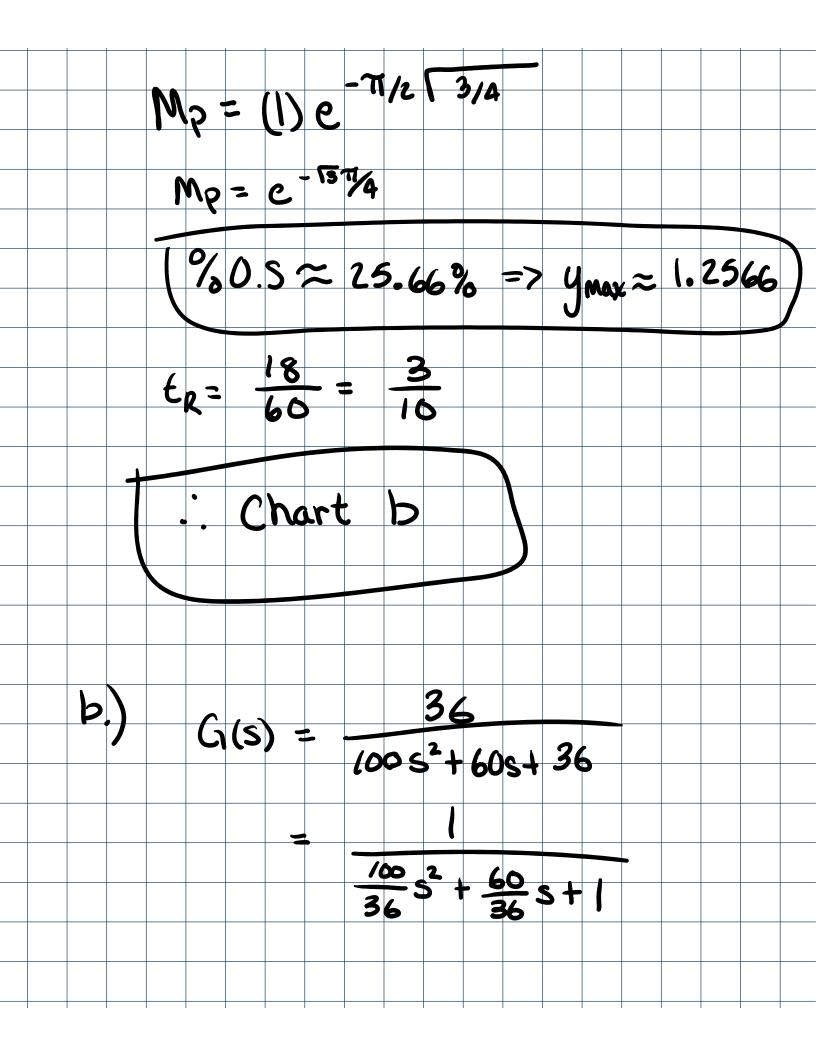
$$W_{4} = \frac{1}{16}\frac{1}{16}\frac{1}{16}$$

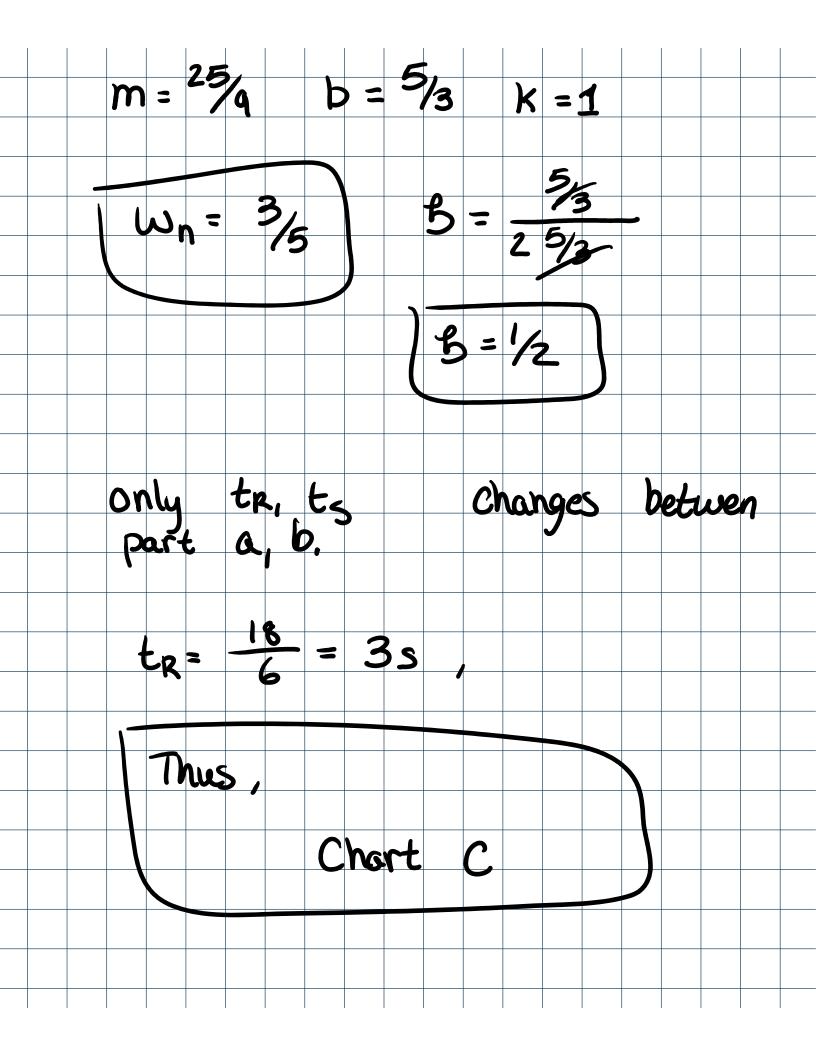
$$W_{5} = \frac{1}{16}\frac{1}{16}\frac{1}{16}$$

$$W_{5} = \frac{1}{16}\frac{1}{16}\frac{1}{16}$$

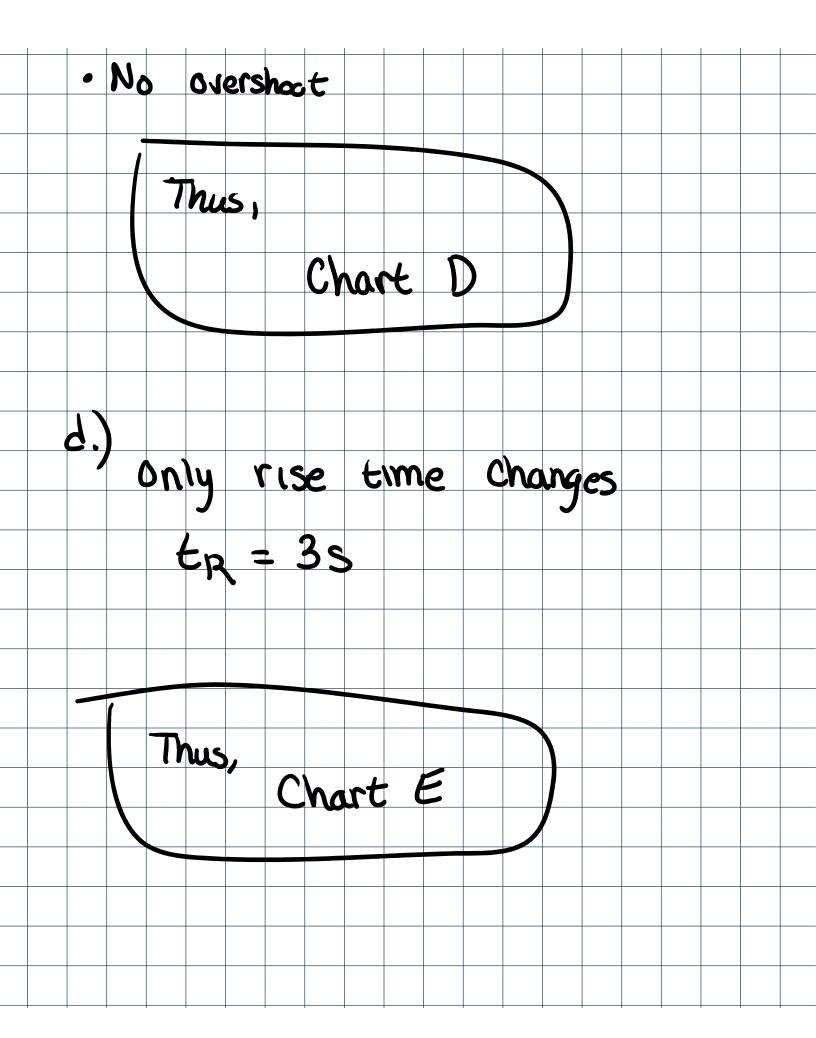
$$W_{5} = \frac{1}{16}\frac{1}{16}\frac{1}{16}$$

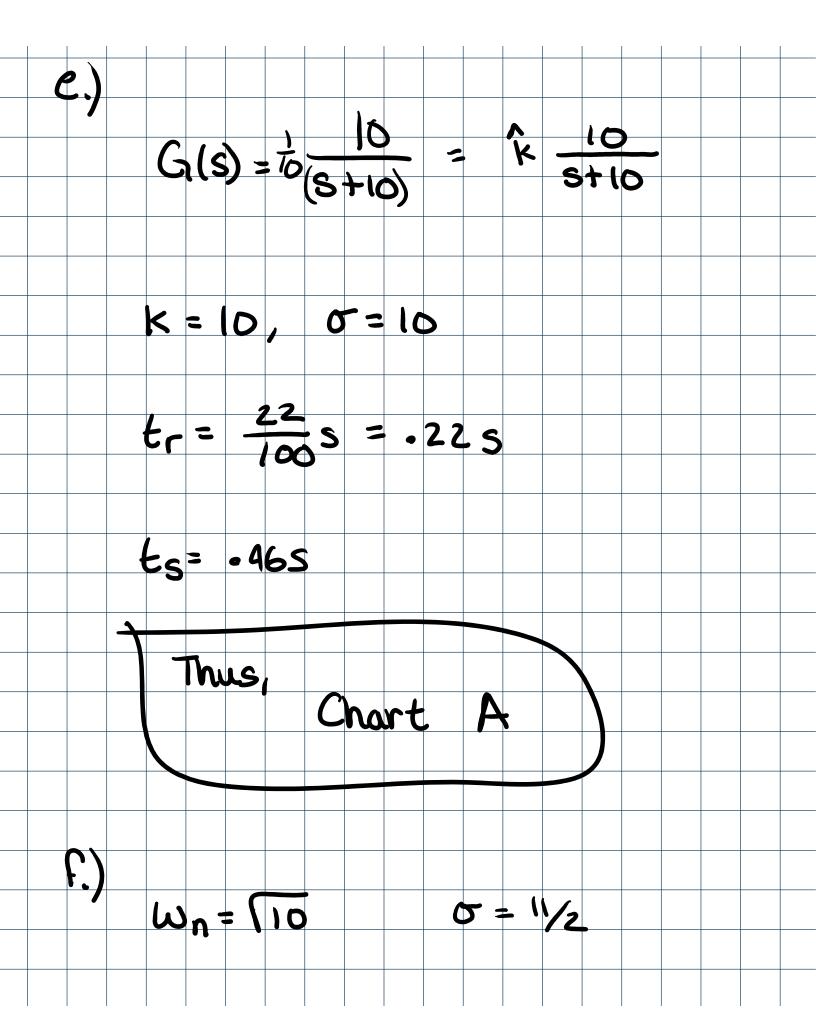
$$W_{7} = \frac{1}{16}\frac{1}{16}\frac{1}{16}$$

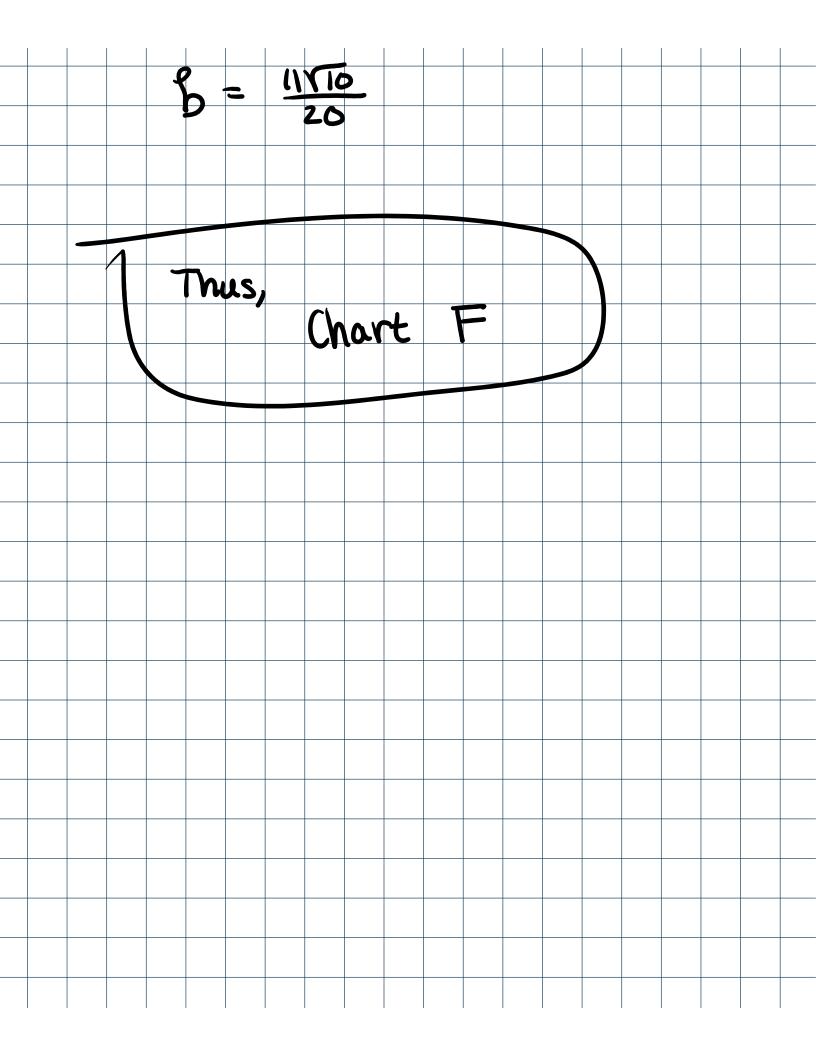




c.)					
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• $G_1(s) = \frac{1}{C \log(2)} = \frac{1}{9s^2 + cs^2 4}$ • $G_1(s) = \frac{1}{s^2 + 26 \omega_1 st \omega_1^2} = \frac{1}{s^2 + 26 \omega_1 st \omega_1^2} = \frac{1}{s^2 + \frac{c}{9}s + \frac{4}{9}} = \frac{1}{s^2 + \frac{c}{9}} =$	Wednesda	S <b>D</b> l	<b>EM</b> (21, 2024	9:04 F	<b>&gt;</b>		1							1								
$= \frac{1}{4} \frac{4/9}{5^2 + \frac{c}{4}s + \frac{4}{9}} = > \hat{k} = \frac{1}{4},  \omega_n = \frac{2}{3}$ $= \frac{1}{4} \frac{4/9}{5^2 + \frac{c}{4}s + \frac{4}{9}} = > \hat{k} = \frac{1}{4},  \omega_n = \frac{2}{3}$ $= \frac{1}{4} \frac{4/9}{5^2 + \frac{c}{4}s + \frac{4}{9}} = > \hat{k} = \frac{1}{4},  \omega_n = \frac{2}{3}$ $= \frac{1}{4} \frac{4/9}{5^2 + \frac{c}{4}s + \frac{4}{9}} = > \hat{k} = \frac{1}{4},  \omega_n = \frac{2}{3}$ $= \frac{1}{4} \frac{4/9}{5^2 + \frac{c}{4}s + \frac{4}{9}} = > \hat{k} = \frac{1}{4},  \omega_n = \frac{2}{3}$	•	G	(5)	) =		CY	\a(	(2	)	•	=	9	S²	+0	:57 (	4						
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