Quiz, Fall Week 9	Name:			
Points possible: 100	Math 1050-90, Fall 2021, Due 11/2 at 11:59 p.m			
Rules/Suggestions: Write with a dark pencil, so that yo just answers. Even if you do calculations in your h Write the final answer in the box.				
Notes: You are on your honor for this to be your own work not ask for help on specific problems.)	k. (You can ask for help on quiz material, but you should			
1. (12 points) Find the domain of $g(x) = \frac{1}{\log(x)}$				
	Answer:			
2. Solve the equations. Check answers to see if they	are false solutions. If any is, note this.			
(2.1) (12 points) $\log_3(20 - x) - \log_3(x) = \log_3(x)$				
	Answer:			
(2.2) (12 points) $3\ln(x-4) - 1 = 5$				

	$f(x) = -\log_2$	(x+3)										
(3.1) (6 points)		(3.4)	(5 pc	oint	s)							
			Asy	ymţ	otot	te:						
Domain:												
		(3.5)										
Range:			mark and dinat	two	р	oint	s w	ith	IN	ΓEG	ER	coor
(3.2) (4 points)								y				
							6	$\uparrow$			<b>—</b>	
							$\frac{1}{4}$					
							$\frac{1}{2}$					
			-6	-	4	-2			2	4		$\stackrel{\longrightarrow}{6}$
x-intercept:							$\frac{-2}{}$					
							-4					
(3.3) (4 points) (Note, give	the EXACT $y$ -						-6					H
intercept. It will conta								Ψ				

forms of each answer. The exact for	ons below. Notice you are m can be found without a cut answer into a calculator,	fixed rate. After 8 hours there are 7.0 asked for the exact and approximate calculator. This is what you will write you get the approximate answer. Use
(4.1) (10 points) Find the growth ra $A_0e^{kt}$ you are being asked to fi	- ,	situation can be modeled by $A(t) = \frac{1}{2} \left( \frac{1}{2}$
Ageyou are being asked to i	ind k and convert it to a pe	ercentage.)
	Exact Answer:	Approx. Answer (Round to 2 decimal places.):
(4.2) (10 points) How many billion b	pacteria will there be 10 hou	urs after the start?
	Exact Answer:	Approx. Answer (Round to 1 decimal place)
		( 1
		billion bacteria
(4.3) (10 points) How long will it take	se for the population to rea	
	Exact Answer:	Approx. Answer
		(Round to 1 decimal place) and write as units)
		and write as units)

Page 3