## Standard 5 Practice Quiz E

MA 109

Print Your Nan	ne:		ID:	
		er above is your correct 8-digit student I or not legible, it will take longer to proce	· ·	- ·
•	lculator. N	class assessments on Standard 5. The onlo to notes or books may be used. This is ar on work.		• ,
•		our work will be graded on both accurac minutes to take this quiz.	y and complete	ness, and partial credit
Be sure to com	plete both	the questions on this page and those o	n the back of th	is page.
1. Suppo	se the por	oulations of a few towns are given by	Town	Population Equation
		the table to the right.	Town A	$873(0.71)^x$
		own has the largest initial population?	Town B	765(1.14) <sup>x</sup>
,		Town A	Town C	$1345(1.03)^x$
	0	Town B	Town D	$919(0.22)^x$
	0	Town C	Town E	$257(0.77)^x$
		Town D	Town F	$616(2.55)^x$
	0	Town E		
	0	Town F		
b)	Which to	owns are <b>shrinking</b> ? Select all that apply.		
		Town A		
		Town B		
		Town C		
		Town D		
		Town E		
		Town F		
c) Which town is <b>shrinking</b>		wn is <b>shrinking the fastest</b> ?		
	0	Town A		
	0	Town B		
	0	Town C		
	0	Town D		
	0	Town E		
	0	Town F		

d	) $\ln\left(\frac{1}{\sqrt[3]{e}}\right)$	Answer:	
	. , .		
e	) $5^{\log_5(37)}$		
	•	Answer:	
f)	$\log_3(9^5)$		
,	03( )		
		Answer:	
		-3x) + 5. What is the domain of $g(x)$	? Write your answer using
	ose $g(x) = 7 \ln(4 - \frac{1}{2})$ val notation in the a		? Write your answer using
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