Standard 5 Practice Quiz B

MA 109

IVIA	103				
Print Your Name:	ID:				
Be sure that the ID number above is your correct 8-d this number is incorrect or not legible, it will take long					
This is practice for an in-class assessments on Standa a 4-function calculator. No notes or books may be us must be entirely your own work.					
Show all of your work. Your work will be graded on is possible. You have 20 minutes to take this quiz.	both accuracy and completeness, and partial credit				
Be sure to complete both the questions on this page	and those on the back of this page.				
 Write the equation of the exponential function with initial value 8 and decay rate of -23%. Write your answer in the answer box below. 					
Answer:					

2.	Determine the inverse o	f each function below.	Write your answer i	in the answer box.

a)
$$f(x) = \log_5(x)$$

Answer:

b)
$$f(x) = \ln(x)$$

Answer:

c)
$$f(x) = 13^x$$

Answer:

3. Find the end behavior of each exponential function below.

a)
$$f(x) = 7(1.34)^x$$

i. As
$$x \to \infty$$
, $y \to$

ii. As
$$x \to -\infty$$
, $y \to$

b)
$$f(x) = \frac{1}{2}(0.95)^{x+2} + 6$$

i. As
$$x \to \infty$$
, $y \to$

ii. As
$$x \to -\infty$$
, $y \to \underline{\hspace{1cm}}$