Name: _Key_   **Period:** _____   **Date:** _____

PreCalculus CH 4 Practice Test

Answer the following questions.

1. What is the relationship between exponential and logarithmic functions?

   Inverse relationship. They "undo" each other.

2. In a few words explain why we do not consider base 1 when studying both exponential and logarithmic functions.

   $y = 1^x = 1$ for every x.

3. Evaluate the following, when $f(x) = 3^x$

   a. $f(2)$

   $f(2) = 3^2 = \boxed{9}$

   b. $f(1/2)$

   $f(1/2) = 3^{1/2} = \boxed{\sqrt{3}}$
   (1.72)

   c. $f(-2)$

   $f(-2) = 3^{-2} = \frac{1}{3^2} = \boxed{\frac{1}{9}}$

   d. $f(2/3)$

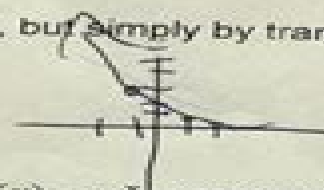 $f(2/3) = 3^{2/3} = \sqrt[3]{3^2} = \boxed{\sqrt[3]{9}}$

4. For $f(x)$ from #3, graph the function by making a table of values (x-y table).
   (Hint: When choosing the x values, set 0 as the center value)

x	y
-2	1/9
-1	1/3
0	1
1	3

5. Now, graph $g(x) = \left(\frac{1}{3}\right)^x$, **without** having to make a table, but simply by transforming the graph of $f(x) = 3^x$ from #4.

   $y = (1/3)^x$ is merely a reflection over the y-axis of the graph $y = 3^x$.

6. A certain exponential graph of the equation of the form, $f(x) = a^x$, passes through the point $(2, 25)$. Find the equation of the function (i.e. find a)

   $25 = a^2 \implies a = 5$ So, $\boxed{f(x) = 5^x}$

7. Using a calculator, evaluate the following:

   a. e^2

   ≈ 7.39

   b. $e^{-2.4}$

   ≈ 0.91

   c. $3e^{-5}$

   ≈ 0.02

Cpm Precalculus Answers Chapter 4

Lingjun Ying

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