

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.

$$y = 1^x = 1 \text{ for every } x.$$

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

a. $f(2)$

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

b. $f(1/2)$

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

c. $f(-2)$

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

d. $f(2/3)$

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

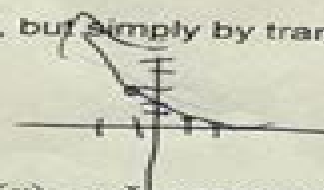
4. For $f(x)$ from #3, graph the function by making a table of values (x-y table).
(Hint: When choosing the x values, set 0 as the center value.)

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



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.

$y = \left(\frac{1}{3}\right)^x$ 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).

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

7. Using a calculator, evaluate the following:

a. e^2

$$\approx 7.39$$

b. $e^{-2.4}$

$$\approx 0.91$$

c. $3e^{-3}$

$$\approx 0.02$$

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