Pre-Calculus 12

Name: _____

Block: _____

## Chapter 7 Self-Assessment

Emerging: I am starting to understand the ideas
Developing: I am understanding many of the ideas but I make errors
Proficient: I have a complete understanding of the skills and concepts
Extending: I am pushing my learning to connect to advanced problems and ideas

| Section | | Level of comprehension | Assignment Completed |
|---|---|---|---|
| 7.1 | • I can analyze an exponential function and determine the domain, range, and asymptote.<br>• I can determine basic points given an exponential function.<br>• I can algebraically calculate the y-intercept of an exponential function. | | |
| 7.2 | • I can apply translations, stretches and reflections to the graphs of exponential functions.<br>• I can write an exponential function for a given graph.<br>• I can write an exponential function given the transformations.<br>• I can take a key point and determine the coordinates of the image point given a transformed function. | | |
| 7.3 | • I can solve algebraically exponential equations that can be written in the same base.<br>• I can solve problems that involve exponential growth and decay algebraically.<br>• I can solve problems involving finances. | | |

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| Work Habits | G<br>100% to 80% of the time | S<br>80% to 60% of the time | N<br>less than 60% of the time |
|---|---|---|---|
| Assignments completed and handed in on time | | | |
| Arrive to class on time | | | |
| Return after break on time | | | |
| Work on the math assignment during class | | | |
| Phone use limited to checking math answer keys posted on the website | | | |
| If absent:<br>watching the lesson video or reading the lesson notes | | | |

Explain why does the graph of an exponential function in the form $y = 2^x$ not have an x-intercept?

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The base function is $y = 2^x$ and a transformed function is of the form $y = a(2)^{b(x-h)} + k$. If you were to **apply only one transformation** to $y = 2^x$, which parameter would you need in order to get an x-intercept? Explain.

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The base function is $y = 2^x$ and a transformed function is of the form $y = a(2)^{b(x-h)} + k$. If you were to **apply only one transformation** to $y = 2^x$, which parameter would you need in order to change the y-intercept? Explain

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