Name: $\qquad$
Block: $\qquad$

## Chapter 1 and 2 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 and posted |
| :---: | :---: | :---: | :---: |
| 1.1 | - I can compare the graphs of a set of functions in the form to $y=f(x) \quad y=f(x-h)+k$ and generalize a rule about $h$ and $k$ <br> - I can write the equation of a function whose graph is a vertical and or horizontal translation of $y=f(x)$ |  |  |
| 1.2 | - I can demonstrate an understanding of the effects of reflections on the graphs of functions and their related equations. X -axis and Y -axis <br> - I can demonstrate an understanding of horizontal and vertical stretches on the graphs of functions and their related equations. |  |  |
| 1.3 | - I can sketch graphs $y=a f(b(x-h))+k$ where the graph of $y=f(x)$ is given <br> - I can write an equation given a graph, which is a transformation of $y=f(x)$ |  |  |
| 1.4 | - I can find the inverse of a relation from a graph <br> - I can find the inverse of a relation algebraically <br> - I know when the notation $f^{-1}(x)$ can be used |  |  |
| 2.1 | - I can graph radical functions using transformations <br> - I can identify the domain and range of radical functions |  |  |
| 2.3 | - I can determine approximate solutions of radical equations graphically by manual graphing. |  |  |

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| Work Habits | G <br> $100 \%$ to $80 \%$ <br> of the time | S <br> $80 \%$ to 60\% <br> of the time | N <br> less than 60\% <br> 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 <br> website |  |  |  |
| If absent: <br> watching the lesson video or reading the lesson notes |  |  |  |

## Communication Questions

1. Consider the functions $f(x)=a \sqrt{x} \quad a \neq 1$ and $f(x)=\sqrt{b x} \quad b \neq 1$.
a) Rewrite $f(x)=\sqrt{16 x}$ as a function with only a vertical stretch.
b) Rewrite $f(x)=9 \sqrt{x}$ as a function with only a horizontal stretch.
c) In what situations would $f(x)=a \sqrt{x}$ produce the same graph as $f(x)=\sqrt{b x}$. where $\neq$ 1 and $b \neq 1$.
2. Explain why the zeroes of a quadratic function do not change with a vertical stretch.
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