|  |  |  |  |
| --- | --- | --- | --- |
| **LG #** | **MCR13** | **Standards:** | **F-IF.2.4, F-IF.2.5, F-IF.2.6** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.**  **The student will be able to:**   * Demonstrate that the rate of change can be written in terms of the difference quotient, -. * Prove the slope formula for a linear function using the difference quotient.   **No major errors or omissions regarding the score 4.0 content.** | | |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. | | |
| **3.0** | **Students will be able to interpret functions that arise in real world contexts, including restricting domain/range and interpreting average rate of change.**  **The student will be able to:**   * Interpret key features of graphs and tables such as intercepts, increasing/decreasing intervals, positive/negative values, relative maximums/minimums, symmetries, end behavior, and periodicity. (F-IF.2.4) * Sketch graphs showing key features given a verbal description of the relationship. * (F-IF.2.4) * Determine appropriate values of the domain of a function in terms of the context of the problem. For example, discrete vs. continuous, positive numbers vs. all real numbers, etc. (F-IF.2.5) * Interpret the average rate of change of a function (presented as a graph or a table) over a specified interval. (F-IF.2.6) * Estimate the rate of change from a graph. (F-IF.2.6)   **No major errors or omissions regarding the score 3.0 content (simple or complex).** | | |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. | | |
| **2.0** | **The student recognizes and describes specific terminology such as:**   |  |  |  | | --- | --- | --- | | * Increasing | * Range | * Interval | | * Decreasing | * Symmetries | * Odd/Even Functions | | * Periodicity | * End Behavior | * Domain | | * Average Rate of Change | * Relative Minimums/Maximums |  |   **The student will be able to:**   * Identify key features of graphs and tables such as intercepts, increasing/decreasing intervals, positive/negative values, relative maximums/minimums, symmetries, end behavior, and periodicity. (F-IF.2.4) * Calculate the average rate of change of a function (presented as a graph or a table) over a specified interval. (F-IF.2.6) | | |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. | | |
| **1.0** | With partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.5** | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.0** | Even with help, no understanding or skill is demonstrated | | |