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| **LG #** | **P14** | **Standards:** | **C.1.12, C.1.13** |
| **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:**   * Create a scenario that demonstrates the Intermediate Value Theorem.   **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 Understand and use the Intermediate and Extreme Value Theorems over closed intervals.**  **The student will be able to:**   * Use the Intermediate Value Theorem on a function over a closed interval(C.1.12) * Apply the Extreme Value Theorem: If f(x) is continuous over a closed interval, then f has a maximum and a minimum on the interval (C.1.13)   **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:**   |  |  |  | | --- | --- | --- | | * Continuous | * Closed interval | * Extreme Value Theorem | | * Intermediate Value Theorem | * Maximum | * Minimum | | * Existence Theorem |  |  |   **The student will be able to:**   * Understand the Intermediate Value Theorem on a function over a closed interval (C.1.12) * Understand the Extreme Value Theorem: If f(x) is continuous over a closed interval, then f has a maximum and a minimum on the interval (C.1.13) | | |
| **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 | | |