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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 |