|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| [Powered by iRubric](http://www.irubric.com)**Family of Graphs Lab** | | | | | | |
|  | **Unacceptable** **0 pts** | **Poor** **1 pts** | **Fair** **2 pts** | **Good** **3 pts** | **Advanced** **4 pts** |  | |  |
| **Slider a**  Transformations that occurred from manipulating slider a. | Unacceptable  No response to questions or incorrect conclusions for the transformations determined by slider a. | Poor  Correctly identified changes to the graphs of 1 or 2 functions. Recognized the correct values of a for a vertical dilation or compression. | Fair  Correctly identified changes to the graphs of 3 or 4 functions. Recognized the correct values of a for a vertical dilation or compression. | Good  Correctly identified changes to the graphs of all five functions. Recognized the correct values of a for a vertical dilation or compression. | Advanced  Correctly identified changes to the graphs of all five functions. Recognized the correct values of a for a vertical dilation or compression. Responses written in complete sentences. |  |
| **Slider b**  Transformations that occurred from manipulating slider b. | Unacceptable  No response to questions or incorrect conclusions for the transformations determined by slider b. | Poor  Correctly identified changes to the graphs of 1 or 2 functions. Recognized the correct values of b for an horizontal dilation or compression. | Fair  Correctly identified changes to the graphs of 3 or 4 functions. Recognized the correct values of b for an horizontal dilation or compression. | Good  Correctly identified changes to the graphs of all five functions. Recognized the correct values of b for an horizontal dilation or compression. | Advanced  Correctly identified changes to the graphs of all five functions. Recognized the correct values of b for an horizontal dilation or compression. Responses written in complete sentences. |  |
| **Slider h**  Transformations that occurred from manipulating slider h. | Unacceptable  No response to questions or incorrect conclusions for the transformations determined by slider h. | Poor  Correctly identified changes to the graphs of 1 or 2 functions. Recognized the correct values of h for a slide to the right or left. | Fair  Correctly identified changes to the graphs of 3 or 4 functions. Recognized the correct values of h for a slide to the right or left. | Good  Correctly identified changes to the graphs of all five functions. Recognized the correct values of h for a slide to the right or left. | Advanced  Correctly identified changes to the graphs of all five functions. Recognized the correct values of h for a slide to the right or left. Responses written in complete sentences. |  |
| **Slider k**  Transformations that occurred from manipulating slider k. | Unacceptable  No response to questions or incorrect conclusions for the transformations determined by slider k. | Poor  Correctly identified changes to the graphs of 1 or 2 functions. Recognized the correct values of k for a slide up or down. | Fair  Correctly identified changes to the graphs of 3 or 4 functions. Recognized the correct values of k for a slide up or down. | Good  Correctly identified changes to the graphs of all five functions. Recognized the correct values of k for a slide up or down. | Advanced  Correctly identified changes to the graphs of all five functions. Recognized the correct values of k for a slide up or down. Written in complete sentences. |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |