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| Powered by iRubric**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.  |  |
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