**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_**

**1.3 – 1.5 Test Review:**

1. Find , , , and given that and .
2. Find , , , and given that and .
3. Find and for and .
4. Perform the appropriate graph transformations and draw the new graph.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x | y |  | x | y |  | x | y |  | x | y |  | x | y |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. Perform the appropriate graph transformations and draw the new graph.

**Parent Function: \_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x | y |  | x | y |  | x | y |  | x | y |  | x | y |
| -2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Find the inverse of the function: .
2. State the transformations occurring in each function below:

**If you have extra time:** What are the ten parent functions?