**Chapter 1 Assignment**

Consider the function , where .

1. Rewrite the function using the square root function.
2. Make a table for the parent function.

|  |  |
| --- | --- |
|  |  |
| 0 | 0 |
| 1 | 1 |
| 4 | 2 |
| 9 | 3 |

1. Make a table for the transformed function.

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Describe the transformation done to the parent function.

Complete a) to f) for the following functions:

1. where
2. where
3. where (HINT factor out the -2 first)
* Vertical Stretch of factor 2
* Horizontal compression
* Reflection in the y-axis
* Translated 6 units to the right
* Translated 1 unit up
1. Make an accurate sketch of the function.

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1. State the domain and range of the function.

#### SOLUTIONS:

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