2.2 Square Roots of a Function



Given a function \_\_\_\_\_\_\_\_\_\_, the square root of this function is \_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_ is only defined for \_\_\_\_\_\_\_\_\_\_.



Example 1



Given , use tables of values to graph the functions and .







Where do the invariant points occur?



Relative Locations of and .



The domain of \_\_\_\_\_\_\_\_\_\_ consists only of values in the domain of \_\_\_\_\_\_\_\_\_\_ for which \_\_\_\_\_\_\_\_\_\_.



The range of \_\_\_\_\_\_\_\_\_\_ consists of the square roots of the values in the range of \_\_\_\_\_\_\_\_\_\_ for which is \_\_\_\_\_\_\_\_\_\_ defined.



|  |  |
| --- | --- |
| Value of | Relative Location of the Graph of |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Example 2



Identify and compare the domains and ranges of and .



Example 3

Using the graph of below, graph the function



