Name: Date:

10.5 Notes: Square Root Function

Graph using a table of values.

$$y= \sqrt{x}$$

|  |  |
| --- | --- |
| X | Y  |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
|  |  |
|  |  |
|  |  |

Recall: Graphing by Translation

A. $ y= (x-6)^{2}+5$ B. $y= (x+3)^{2}+1$ C. $y= (x-9)^{2}-10$

Applying to Square Root Functions

A. $ y= \sqrt{x}+5$ B. $y= \sqrt{x+4}$ C. $y= \sqrt{x-9}$



D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Example 1: Finding Domain without a Graph

A. B.

Why does it work? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Graph Using a Table of Values

A. $ y= 2\sqrt{x-4}+5$ B. $y= -\sqrt{x+1}$

Hw: Section 10.5 p. 642 # 7-15 odd, 26-29, 31-37 odd, 55-58