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| **GRAPHING RADICAL FUNCTIONS** |

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| **VOCABULARY**  **Radical function:** A function that can be written in the form . For even values of n, the domain of a radical function is the real numbers x > h.  **EX:**  **Square Root Function:** a function that can be written in the form . The domain of a square root function is all real numbers x > h.  **EX:** |

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| **Families of Radical Functions**   |  |  |  | | --- | --- | --- | |  | **SQUARE ROOT** | **RADICAL** | | **Parent Function** |  |  | | **Reflection in x-axis** |  |  | | **Stretch:** a > 1  **Shrink:** 0 < a < 1 |  |  | | **Translation**  Horizontal by h  Vertical by k |  |  | |
| Translating a Square Root Function |

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| **EXAMPLE #1:** Graph  **Domain: Range:**  **EXAMPLE #2:** Graph  **Domain: Range:** |
| Graphing a Square Root Function |

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| **EXAMPLE #3:** Graph  **Domain: Range:**  **EXAMPLE #4:** Graph  **Domain: Range:** |