

Radicals 1 – The Square Root Graph
Homework #7

Name _____
Per _____ Date _____

For each function below:

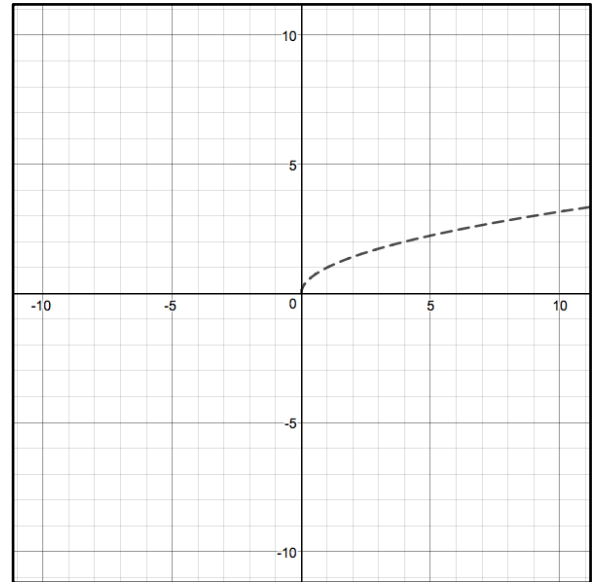
- a. Describe how the parent function $f(x) = \sqrt{x}$ is transformed.
- b. State the domain and range of the function
- c. Sketch the graph.

1. $g(x) = \sqrt{x+6} + 4$

$a = \underline{\hspace{2cm}}, h = \underline{\hspace{2cm}}, k = \underline{\hspace{2cm}}$

Domain: _____

Range: _____

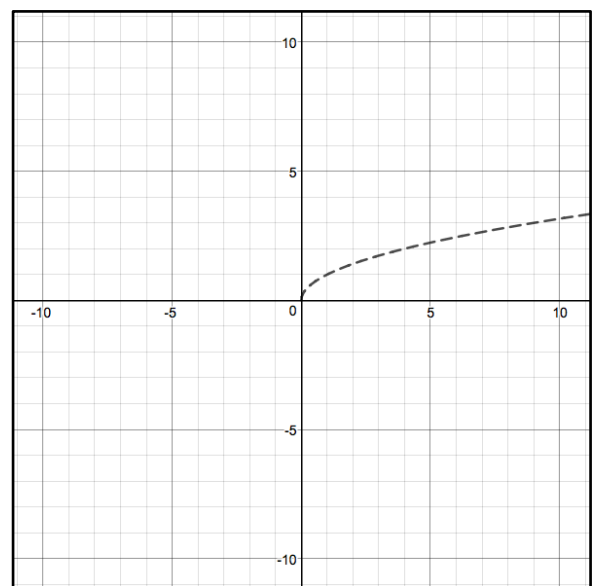


2. $g(x) = -2\sqrt{x+5} - 3$

$a = \underline{\hspace{2cm}}, h = \underline{\hspace{2cm}}, k = \underline{\hspace{2cm}}$

Domain: _____

Range: _____

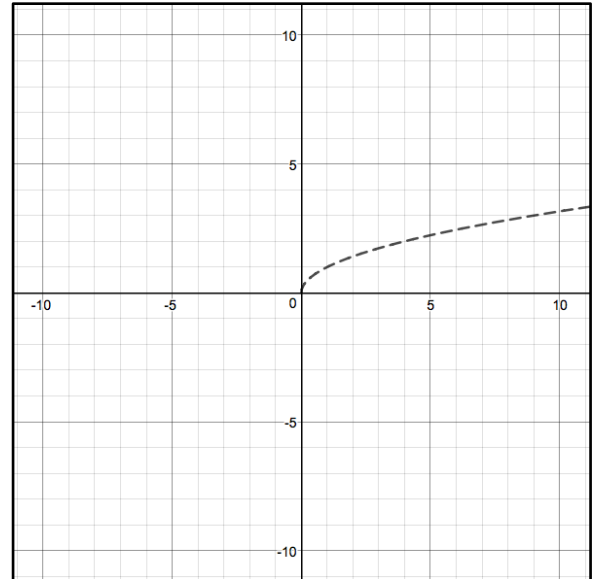


3. $g(x) = 4\sqrt{x-2} - 5$

$a = \underline{\hspace{2cm}}, h = \underline{\hspace{2cm}}, k = \underline{\hspace{2cm}}$

Domain: _____

Range: _____

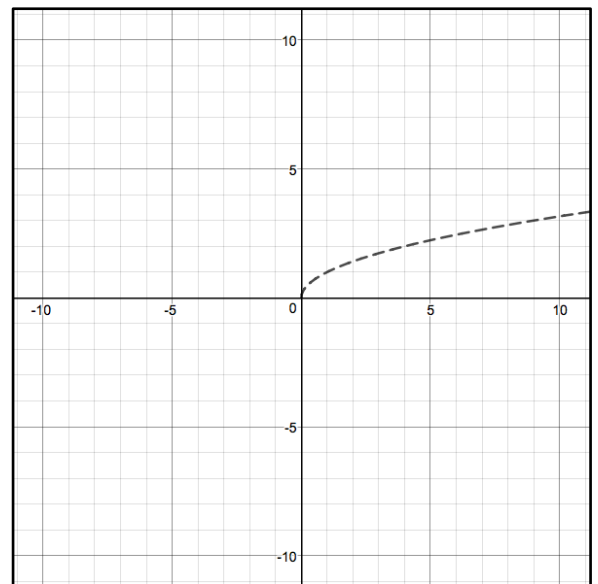


4. $g(x) = \frac{2}{3}\sqrt{x-3}$

$a = \underline{\hspace{2cm}}, h = \underline{\hspace{2cm}}, k = \underline{\hspace{2cm}}$

Domain: _____

Range: _____



5. $g(x) = -3\sqrt{x-4} + 6$

$a = \underline{\hspace{2cm}}, h = \underline{\hspace{2cm}}, k = \underline{\hspace{2cm}}$

Domain: _____

Range: _____

