

Name _____
Mr. Schlansky

Date _____
Algebra II

Graphing Square and Cube Root Functions

For the following equations, graph the equation, state the domain, range, and end behavior.

1. $f(x) = 2 - \sqrt{x + 3}$

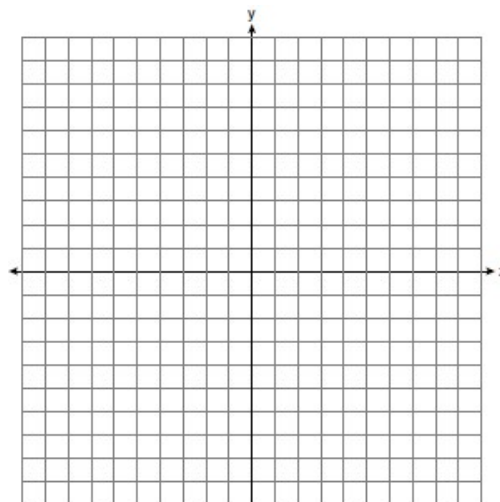
Domain:

Range:

End Behavior:

$$x \rightarrow -3, f(x) \rightarrow$$

$$x \rightarrow \infty, f(x) \rightarrow$$



2. $f(x) = -\sqrt[3]{2x + 8}$

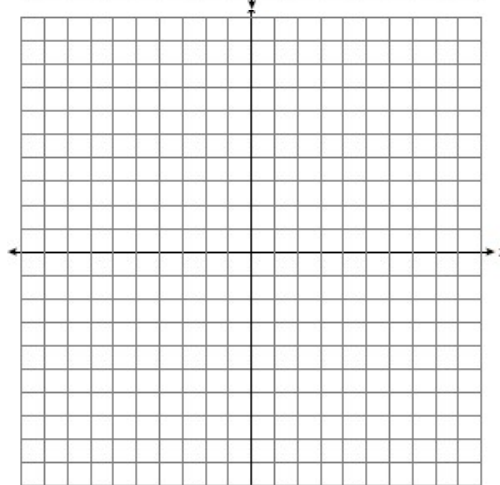
Domain:

Range:

End Behavior:

$$x \rightarrow -\infty, f(x) \rightarrow$$

$$x \rightarrow \infty, f(x) \rightarrow$$



3. $y = \sqrt[3]{x - 2}$

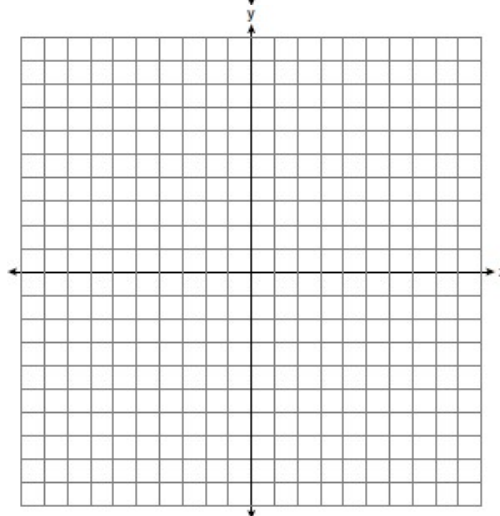
Domain:

Range:

End Behavior:

$$x \rightarrow -\infty, f(x) \rightarrow$$

$$x \rightarrow \infty, f(x) \rightarrow$$



4. $y = \sqrt{x} - 1$

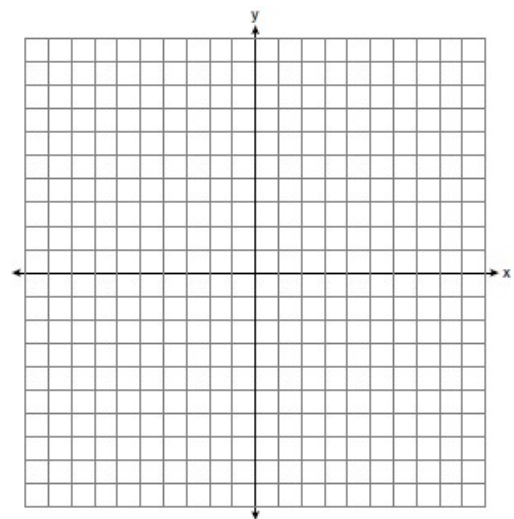
Domain:

Range:

End Behavior:

$x \rightarrow 0, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$



5. $y = -2\sqrt{x-2}$

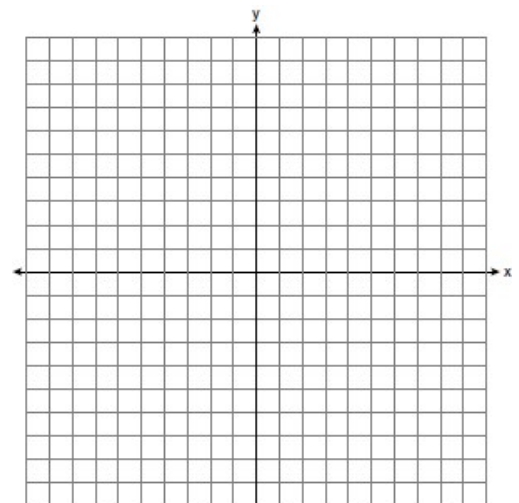
Domain:

Range:

End Behavior:

$x \rightarrow 2, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$



6. $y = 2 - \sqrt[3]{x+5}$

Domain:

Range:

End Behavior:

$x \rightarrow -\infty, f(x) \rightarrow$

$x \rightarrow \infty, f(x) \rightarrow$

