

Math Sheet

Name _____ Score _____ / 24 Teacher _____ Date _____

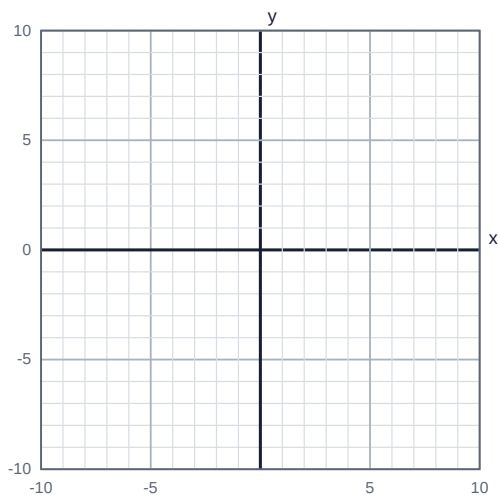
Graphing Radical Functions

Find the domain and range, then graph each radical function.

1. $y = \sqrt{x - 3}$

Domain: _____

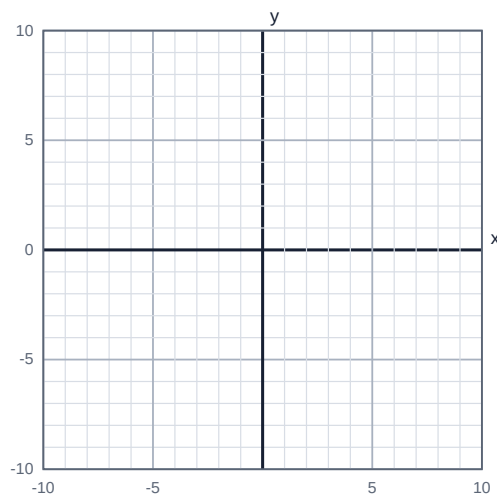
Range: _____



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

Domain: _____

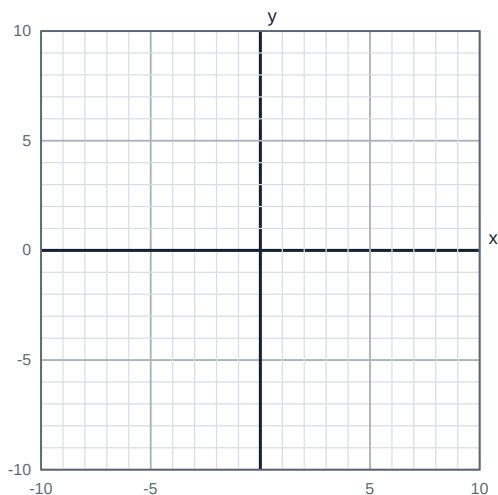
Range: _____



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

Domain: _____

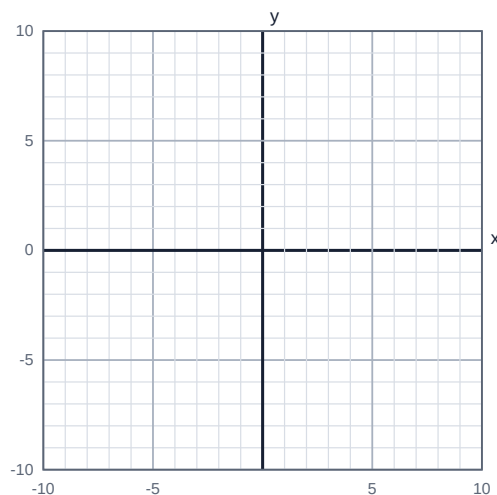
Range: _____



4. $y = 3 \cdot \sqrt[3]{x+1} - 1$

Domain: _____

Range: _____



Math Sheet

Name _____ Score _____ / 24 Teacher _____ Date _____

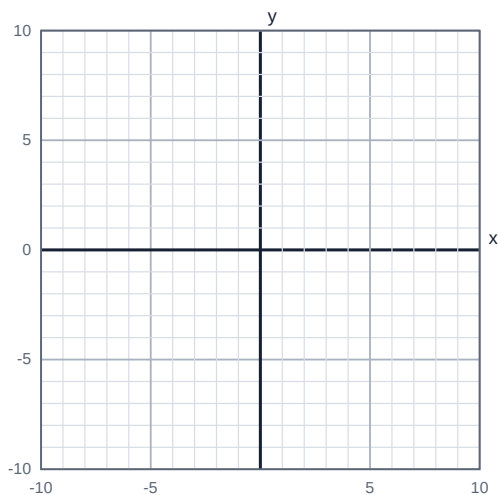
Graphing Radical Functions

Find the domain and range, then graph each radical function.

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

Domain: _____

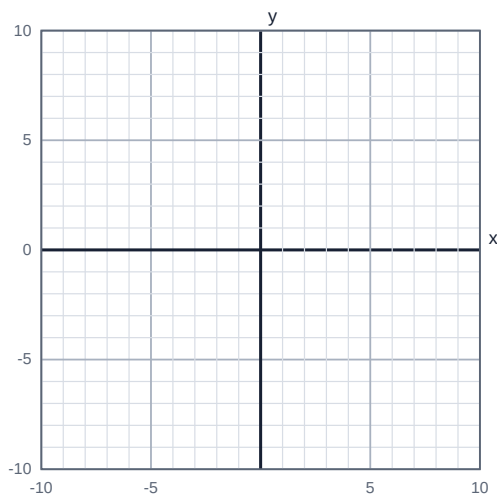
Range: _____



6. $y = -3\sqrt[3]{x-2} - 1$

Domain: _____

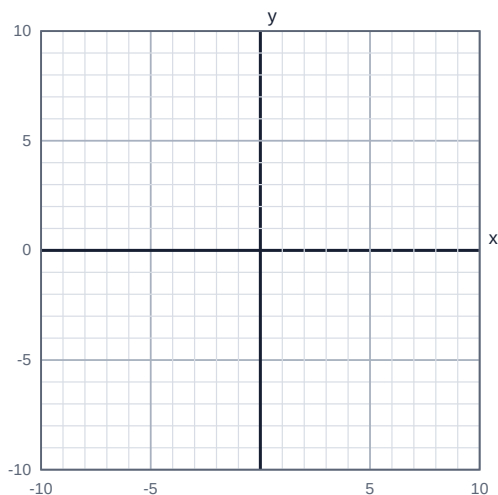
Range: _____



7. $y = \sqrt{x}$

Domain: _____

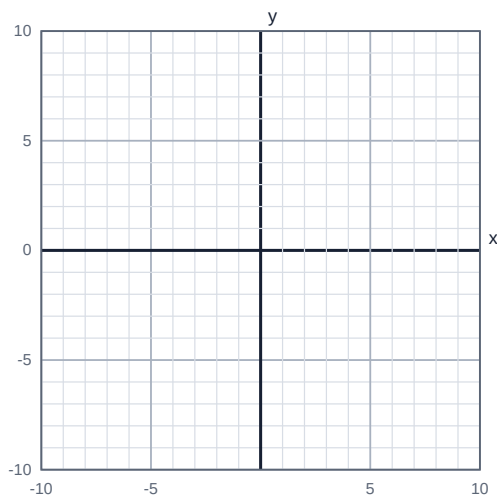
Range: _____



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

Domain: _____

Range: _____



Math Sheet

Name _____ Score _____ / 24 Teacher _____ Date _____

Graphing Radical Functions

Answer Key

Find the domain and range, then graph each radical function.

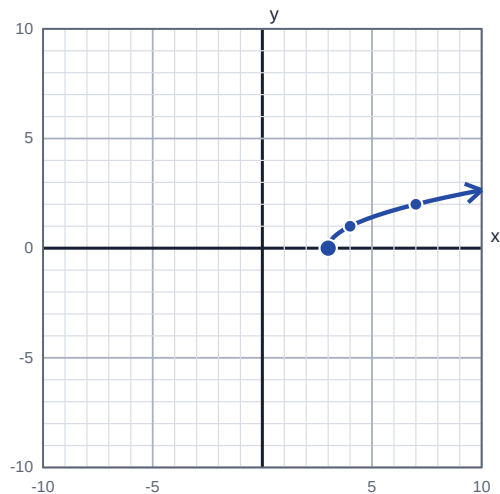
1. $y = \sqrt{x - 3}$

Domain: $x \geq 3$

Range: $y \geq 0$

Endpoint: (3, 0)

Useful points: (4, 1), (7, 2)



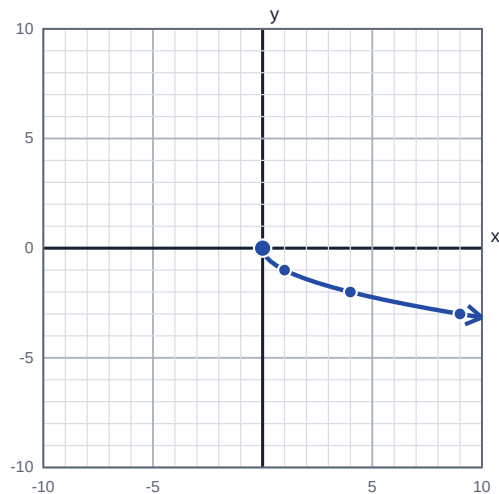
2. $y = -1 \cdot \sqrt{x}$

Domain: $x \geq 0$

Range: $y \leq 0$

Endpoint: (0, 0)

Useful points: (1, -1), (4, -2)



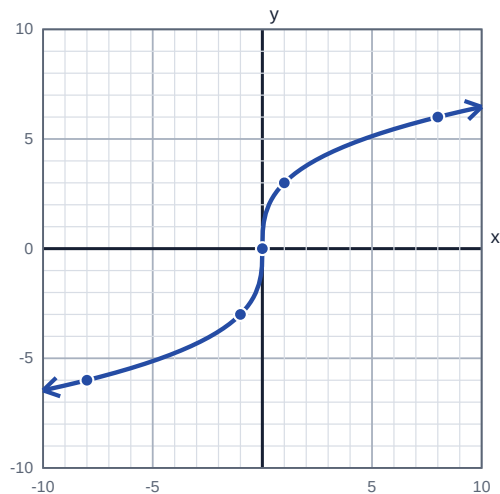
3. $y = 3 \cdot \sqrt[3]{x}$

Domain: all real numbers

Range: all real numbers

Center: (0, 0)

Useful points: (-8, -6), (-1, -3)



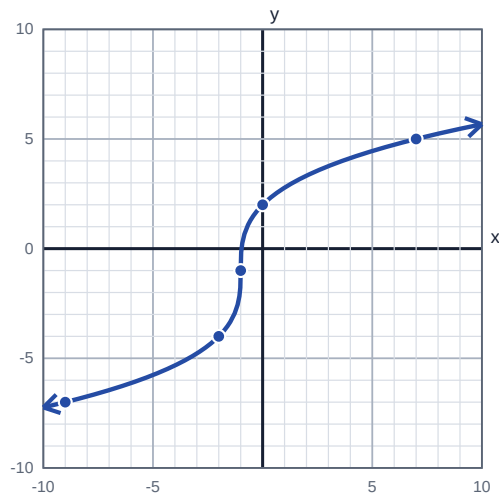
4. $y = 3 \cdot \sqrt[3]{x + 1} - 1$

Domain: all real numbers

Range: all real numbers

Center: (-1, -1)

Useful points: (-9, -7), (-2, -4)



Graphing Radical Functions

Answer Key

Find the domain and range, then graph each radical function.

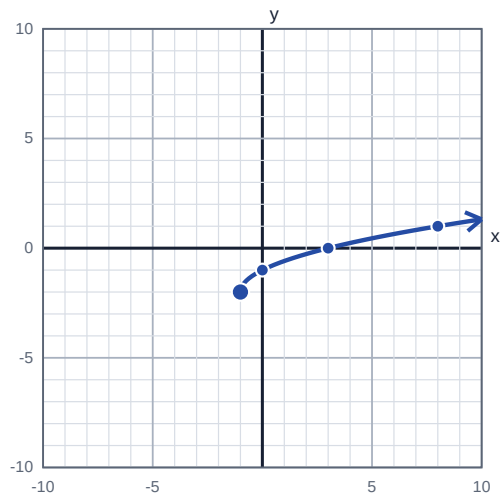
5. $y = \sqrt{x+1} - 2$

Domain: $x \geq -1$

Range: $y \geq -2$

Endpoint: $(-1, -2)$

Useful points: $(0, -1), (3, 0)$



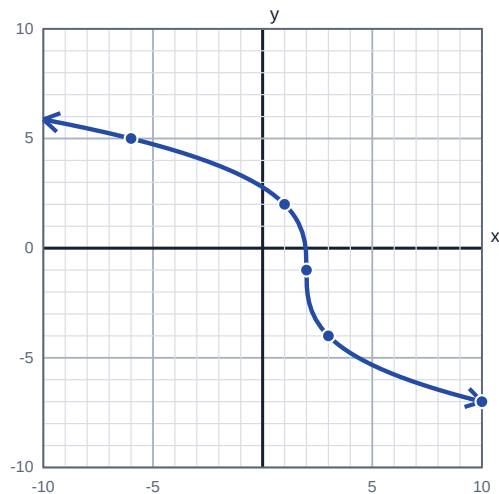
6. $y = -3\sqrt[3]{x-2} - 1$

Domain: all real numbers

Range: all real numbers

Center: $(2, -1)$

Useful points: $(-6, 5), (1, 2)$



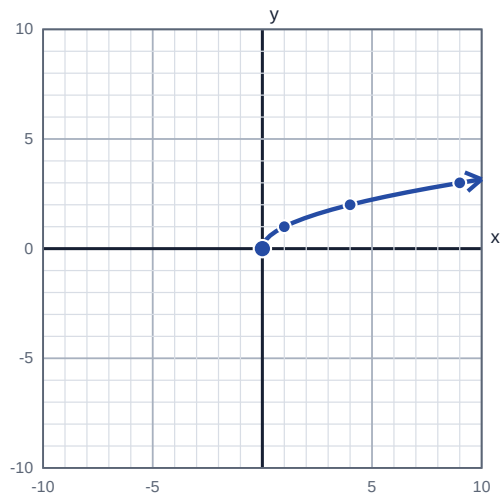
7. $y = \sqrt{x}$

Domain: $x \geq 0$

Range: $y \geq 0$

Endpoint: $(0, 0)$

Useful points: $(1, 1), (4, 2)$



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

Domain: all real numbers

Range: all real numbers

Center: $(0, -2)$

Useful points: $(-8, -4), (-1, -3)$

