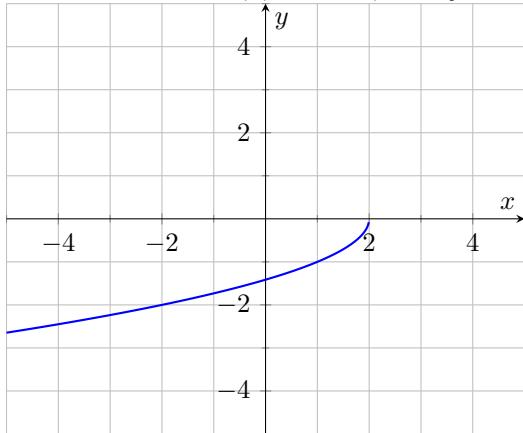


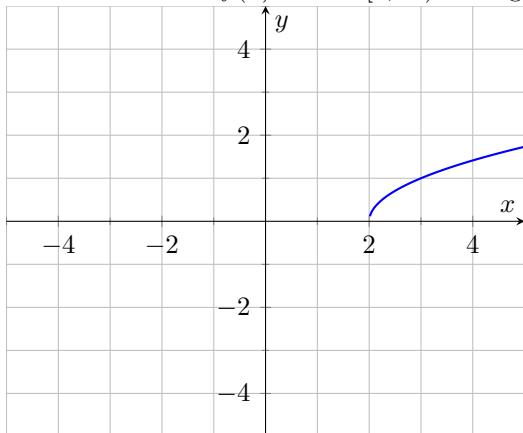
1. Given $f(x) = \sqrt{x - 2}$, complete the table below, sketch a graph of $f(x)$, and determine the domain D of $f(x)$.

x	$f(x)$
2	
3	
6	
11	

- A. The domain of $f(x)$ is $D = (-\infty, 2]$. The graph of $f(x)$ is given below:

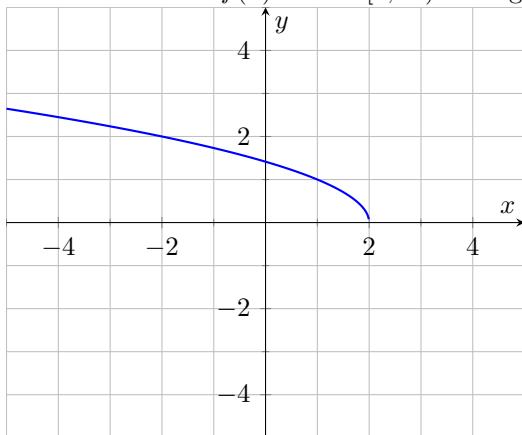


- B. The domain of $f(x)$ is $D = [2, \infty)$. The graph of $f(x)$ is given below:

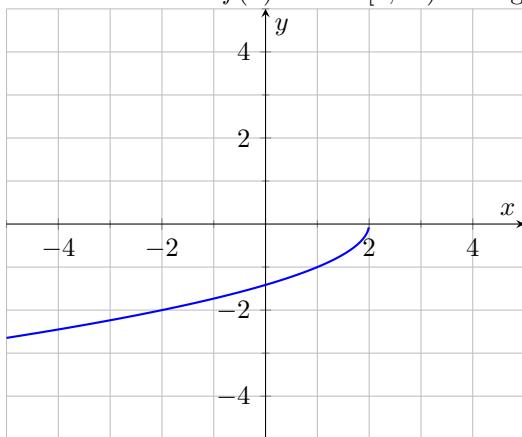


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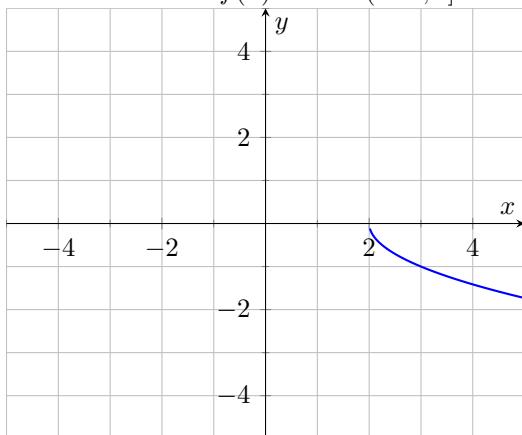
C. The domain of $f(x)$ is $D = [2, \infty)$. The graph of $f(x)$ is given below:



D. The domain of $f(x)$ is $D = [2, \infty)$. The graph of $f(x)$ is given below:

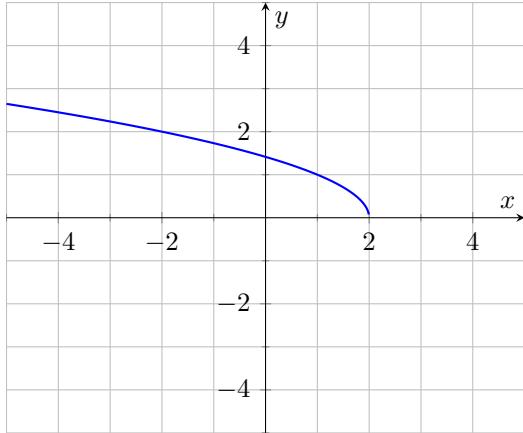


E. The domain of $f(x)$ is $D = (-\infty, 2]$. The graph of $f(x)$ is given below:

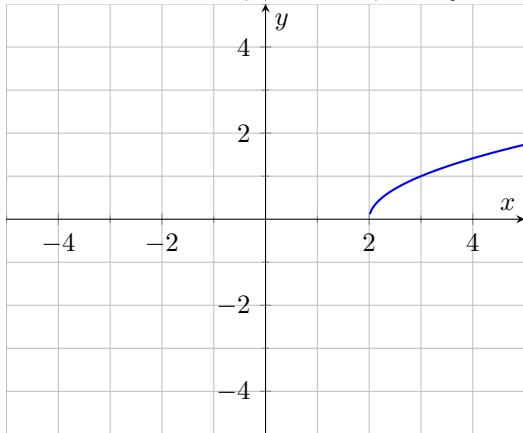


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F. The domain of $f(x)$ is $D = (-\infty, 2]$. The graph of $f(x)$ is given below:

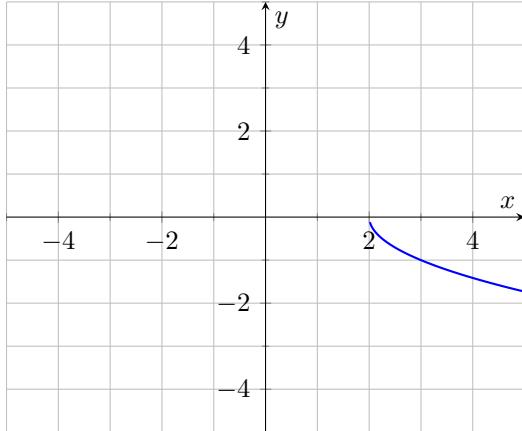


G. The domain of $f(x)$ is $D = (-\infty, 2]$. The graph of $f(x)$ is given below:



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H. The domain of $f(x)$ is $D = [2, \infty)$. The graph of $f(x)$ is given below:



2. Evaluate the radical expression.

$$-\sqrt[3]{0}$$

A. Not a real number.

B. 0

C. 4

D. -2

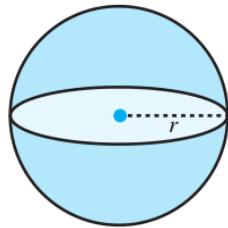
E. -7

F. 7

G. -9

H. -3

3. Use the formula $r = \sqrt[3]{\frac{3V}{4\pi}}$ to determine to the nearest tenth of a centimeter the radius of a spherical container with volume $V = 385 \text{ cm}^3$.



- A. The radius of the container is 4.7 cm.
 - B. The radius of the container is 4.1 cm.
 - C. The radius of the container is 4.6 cm.
 - D. The radius of the container is 5 cm.
 - E. The radius of the container is 4.4 cm.
 - F. The radius of the container is 4.2 cm.
 - G. The radius of the container is 4 cm.
 - H. The radius of the container is 4.5 cm.
4. Algebraically determine the domain D of the function $f(x)$.

$$f(x) = 2x^2 - 7$$

- A. $D = \mathbb{R} \setminus \{\sqrt{\frac{7}{2}}\}$
- B. $D = \emptyset$
- C. $D = [\sqrt{\frac{7}{2}}, \infty)$
- D. $D = [\frac{2}{7}, \infty)$
- E. $D = (-\infty, \frac{2}{7}]$
- F. $D = (-\infty, \sqrt{\frac{7}{2}}]$
- G. $D = \mathbb{R}$
- H. $D = \mathbb{R} \setminus \{\frac{2}{7}\}$

5. Algebraically determine the domain D of the function $f(x)$.

$$f(x) = 6x - 4$$

A. $D = (-\infty, \frac{3}{2}]$

B. $D = \mathbb{R}$

C. $D = (-\infty, \frac{2}{3}]$

D. $D = \mathbb{R} \setminus \{\frac{3}{2}\}$

E. $D = [\frac{2}{3}, \infty)$

F. $D = \mathbb{R} \setminus \{\frac{2}{3}\}$

G. $D = \emptyset$

H. $D = [\frac{3}{2}, \infty)$

6. Evaluate the radical expression.

$$\sqrt{25}$$

A. 11

B. -3

C. 4

D. 5

E. 8

F. 0

G. 9

H. 10

7. Evaluate the radical expression.

$$\sqrt[3]{-216} + \sqrt[3]{27} + \sqrt[3]{216}$$

A. 1

B. -6

C. 3

D. 9

E. 12

F. -1

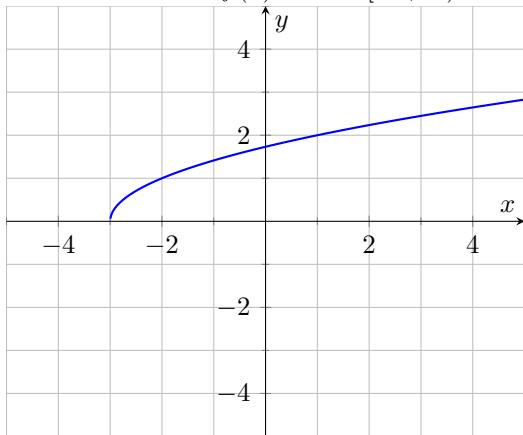
G. 8

H. 10

8. Given $f(x) = \sqrt{3 - x}$, complete the table below, sketch a graph of $f(x)$, and determine the domain D of $f(x)$.

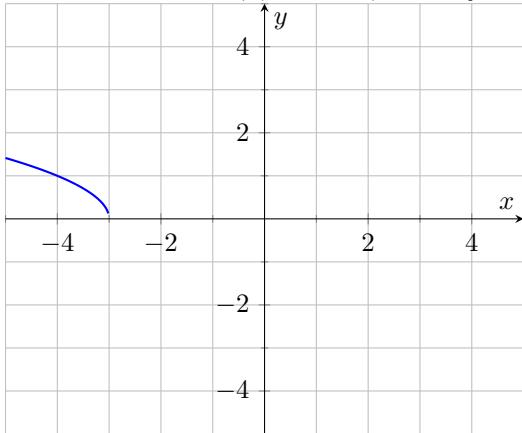
x	$f(x)$
-6	
-1	
2	
3	

A. The domain of $f(x)$ is $D = [-3, \infty)$. The graph of $f(x)$ is given below:

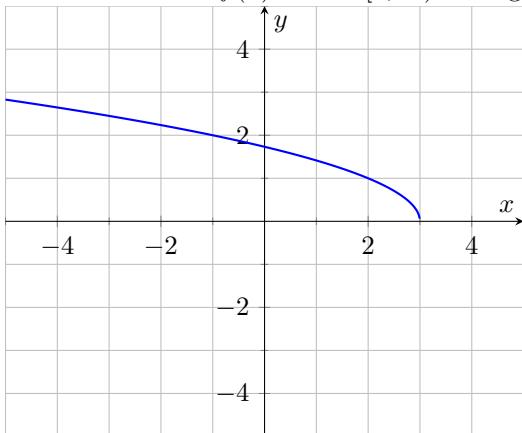


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B. The domain of $f(x)$ is $D = (-\infty, -3]$. The graph of $f(x)$ is given below:

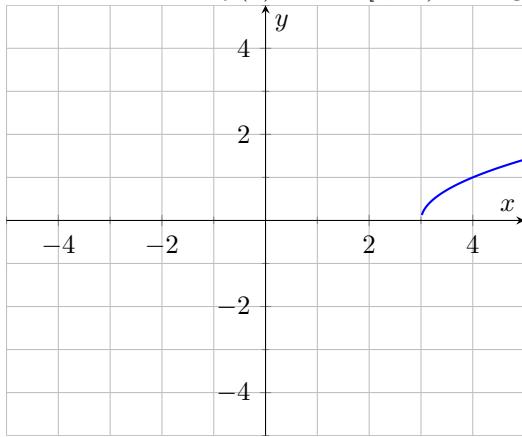


C. The domain of $f(x)$ is $D = [3, \infty)$. The graph of $f(x)$ is given below:

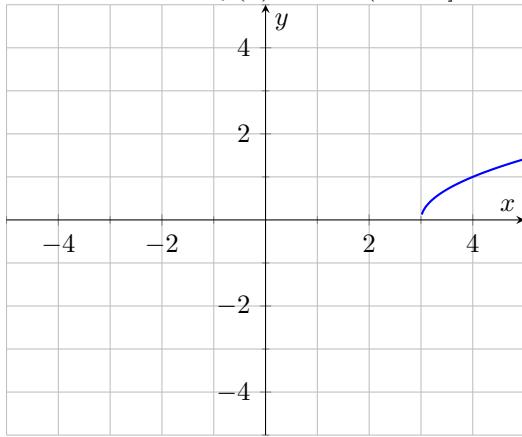


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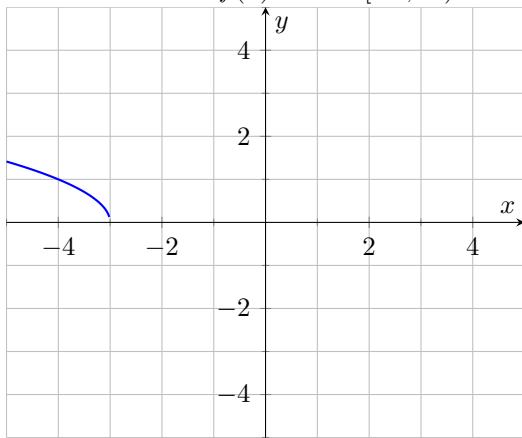
D. The domain of $f(x)$ is $D = [3, \infty)$. The graph of $f(x)$ is given below:



E. The domain of $f(x)$ is $D = (-\infty, 3]$. The graph of $f(x)$ is given below:

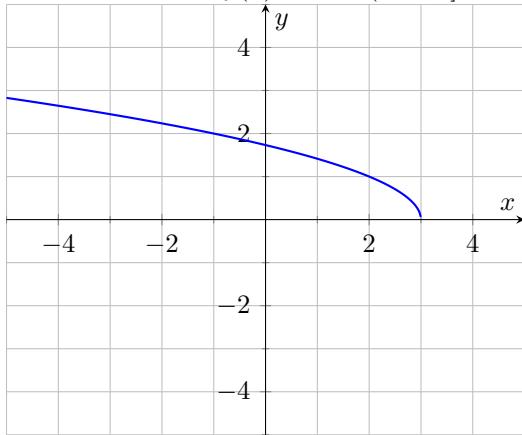


F. The domain of $f(x)$ is $D = [-3, \infty)$. The graph of $f(x)$ is given below:



MORE OPTIONS ON NEXT PAGE...

G. The domain of $f(x)$ is $D = (-\infty, 3]$. The graph of $f(x)$ is given below:



H. The domain of $f(x)$ is $D = (-\infty, -3]$. The graph of $f(x)$ is given below:

