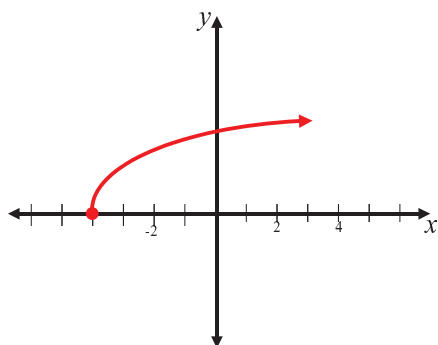


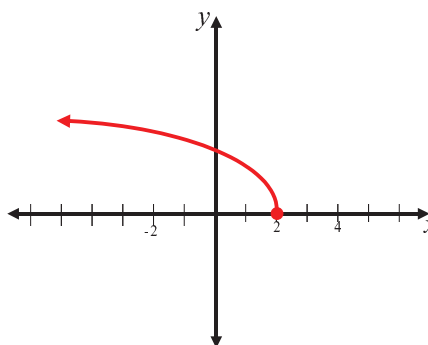
Finding the Domain

Use the graph to describe the domain of each square root function.

1. $y = \sqrt{2x+8}$



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



Use the table to describe the domain of each square root function.

3. $y = \sqrt{(x+12)} + 5$

x	y
-14	ERROR
-13	ERROR
-12	5
-11	6
-10	6.4142

4. $y = \sqrt{-2x+7}$

x	y
2.5	1.4142
3.0	1
3.5	0
4.0	ERROR
4.5	ERROR

Set up and solve an inequality to describe the domain of each square root function.

5. $f(x) = \sqrt{x+3}$

6. $f(x) = \sqrt{8x-36}$

7. $f(x) = \sqrt{-2x-10}$

8. $g(x) = \sqrt{18-3x}$

9. $h(x) = \sqrt{7x-4}$

10. $p(x) = \sqrt{\frac{1}{2}x+13}$

11. $f(x) = \sqrt{(x+4)} + 5$

12. $y = 2\sqrt{-x-7}$

Challenge: $f(x) = \sqrt{x^2-2x-15}$