



## Domain and Range of Radical Functions

Name: \_\_\_\_\_

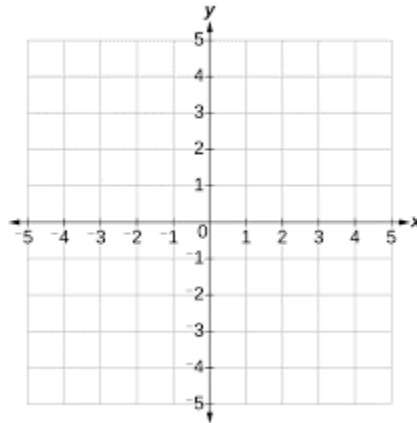
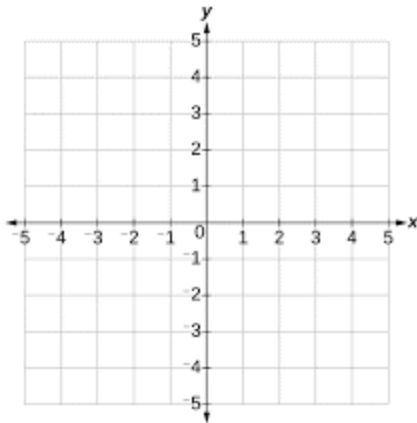
Date: \_\_\_\_\_



Sketch the graph of each function.

1)  $y = \sqrt{x} - 1$

2)  $y = 2\sqrt{x} + 2$



Identify the domain and range of each.

3)  $y = \sqrt{x - 5} + 3$

4)  $y = \sqrt{x + 1} - 2$

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

6)  $y = \sqrt{3x - 9} + 6$

7)  $y = \sqrt{9x^2 - 9}$

8)  $y = \sqrt{x^2 + 9} - 4$

9)  $y = 7\sqrt[5]{2x^4 + 5x^3 - x^2 - x + 1} + 7$

10)  $y = 2x\sqrt[4]{x^4 + 1} + 1$



QUIZ ?

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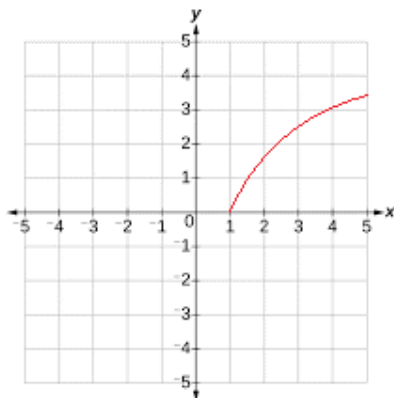


## Answers

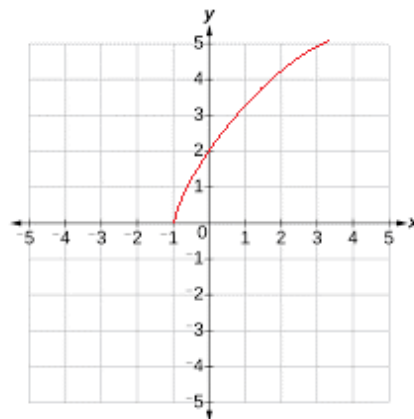


Sketch the graph of each function.

1)  $y = \sqrt{x} - 1$



2)  $y = 2\sqrt{x} + 2$



Identify the domain and range of each.

3)  $y = \sqrt{x-5} + 3$

$D: x \geq 5$

$R: y \geq +3$

4)  $y = \sqrt{x+1} - 2$

$D: x \geq -1$

$R: y \geq -2$

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

$D: -\infty < x < +\infty$

$R: -\infty < x < +\infty$

6)  $y = \sqrt{3x-9} + 6$

$D: x \geq 3$

$R: y \geq 6$

7)  $y = \sqrt{9x^2 - 9}$

$D: (x \geq 1) \cup (x \leq -1)$

$R: y \geq 0$

8)  $y = \sqrt{x^2 + 9} - 4$

$D: -\infty < x < +\infty$

$R: y \geq -4$

9)  $y = 7\sqrt[5]{2x^4 + 5x^3 - x^2 - x + 1} + 7$

$D: -\infty < x < +\infty$

$R: -\infty < x < +\infty$

10)  $y = 2x^4\sqrt{x^4 + 1} + 1$

$D: -\infty < x < +\infty$

$R: -\infty < x < +\infty$



QUIZ ?

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