

**Radical Graphing Practice**

© 2014 Kuta Software LLC. All rights reserved.

Date \_\_\_\_\_ Period \_\_\_\_\_

**Identify the domain and range of each. Then sketch the graph.**

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

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

3)  $y = 2 + \sqrt{x + 5}$

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

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

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

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

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

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

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

$$11) y = \sqrt{x-4} - 5$$

$$12) y = \sqrt{x-2} - 2$$

$$13) y = \sqrt{x+1} + 1$$

$$14) y = 5 + \sqrt{x+1}$$

$$15) y = -3 + \sqrt{x+4}$$

$$16) y = \sqrt{x+3} + 4$$

$$17) y = \sqrt{x-4} + 3$$

$$18) y = \sqrt{x-2} - 4$$

$$19) y = \sqrt{x-1} - 1$$

$$20) y = \sqrt{x+1} + 2$$

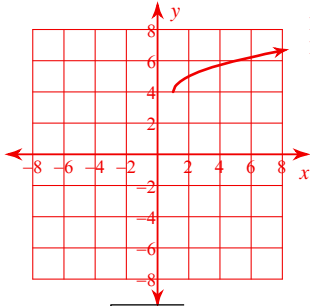
## Radical Graphing Practice

© 2014 Kuta Software LLC. All rights reserved.

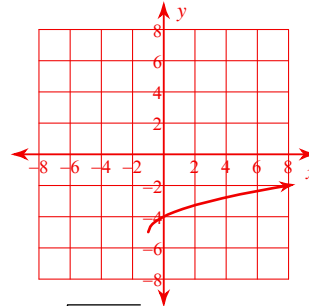
Date \_\_\_\_\_ Period \_\_\_\_\_

Identify the domain and range of each. Then sketch the graph.

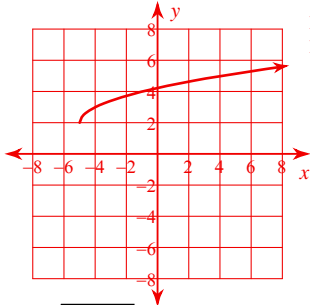
1)  $y = 4 + \sqrt{x-1}$

Domain:  $x \geq 1$   
Range:  $y \geq 4$ 

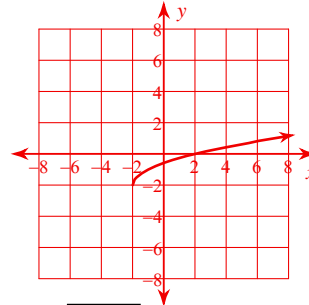
2)  $y = \sqrt{x+1} - 5$

Domain:  $x \geq -1$   
Range:  $y \geq -5$ 

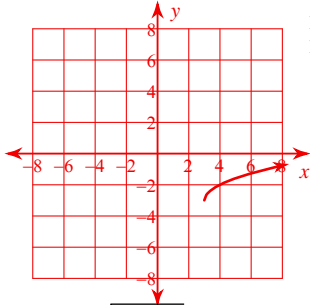
3)  $y = 2 + \sqrt{x+5}$

Domain:  $x \geq -5$   
Range:  $y \geq 2$ 

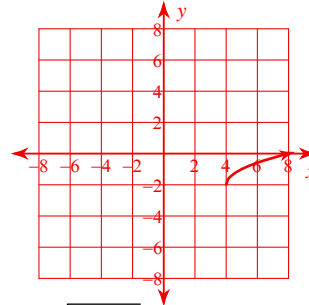
4)  $y = \sqrt{x+2} - 2$

Domain:  $x \geq -2$   
Range:  $y \geq -2$ 

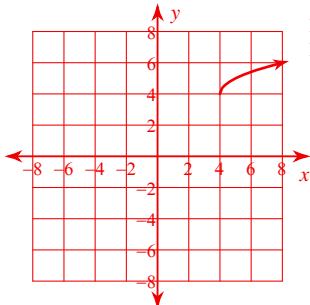
5)  $y = \sqrt{x-3} - 3$

Domain:  $x \geq 3$   
Range:  $y \geq -3$ 

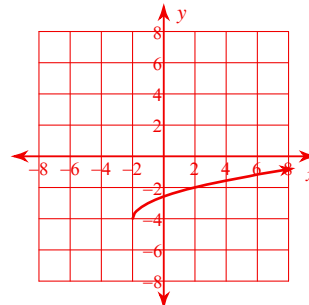
6)  $y = \sqrt{x-4} - 2$

Domain:  $x \geq 4$   
Range:  $y \geq -2$ 

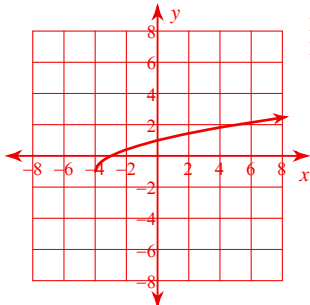
7)  $y = 4 + \sqrt{x-4}$

Domain:  $x \geq 4$   
Range:  $y \geq 4$ 

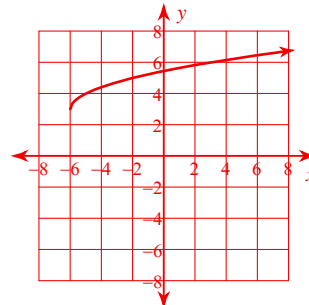
8)  $y = \sqrt{x+2} - 4$

Domain:  $x \geq -2$   
Range:  $y \geq -4$ 

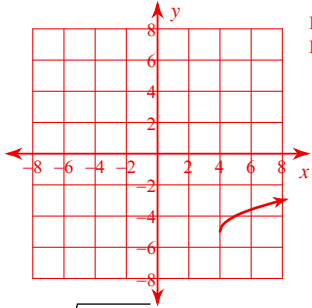
9)  $y = \sqrt{x+4} - 1$

Domain:  $x \geq -4$   
Range:  $y \geq -1$ 

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

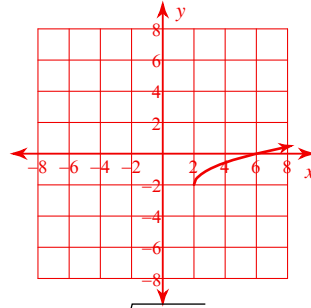
Domain:  $x \geq -6$   
Range:  $y \geq 3$

$$11) y = \sqrt{x-4} - 5$$



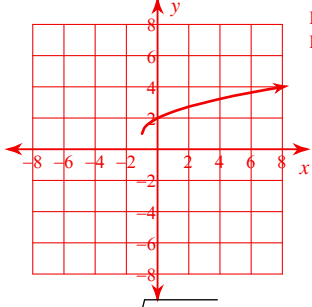
Domain:  $x \geq 4$   
Range:  $y \geq -5$

$$12) y = \sqrt{x-2} - 2$$



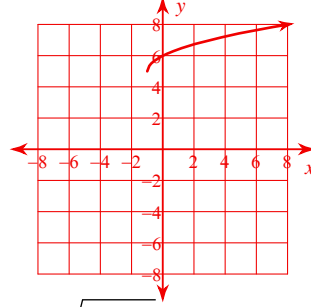
Domain:  $x \geq 2$   
Range:  $y \geq -2$

$$13) y = \sqrt{x+1} + 1$$



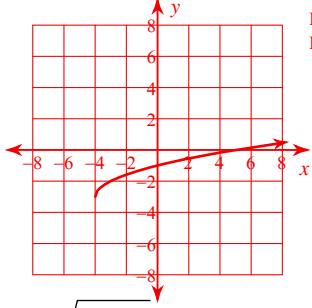
Domain:  $x \geq -1$   
Range:  $y \geq 1$

$$14) y = 5 + \sqrt{x+1}$$



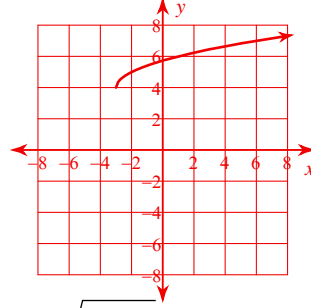
Domain:  $x \geq -1$   
Range:  $y \geq 5$

$$15) y = -3 + \sqrt{x+4}$$



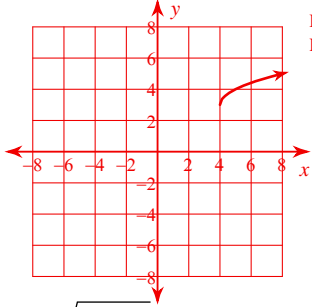
Domain:  $x \geq -4$   
Range:  $y \geq -3$

$$16) y = \sqrt{x+3} + 4$$



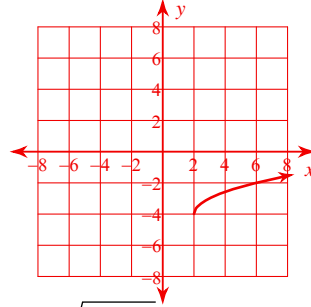
Domain:  $x \geq -3$   
Range:  $y \geq 4$

$$17) y = \sqrt{x-4} + 3$$



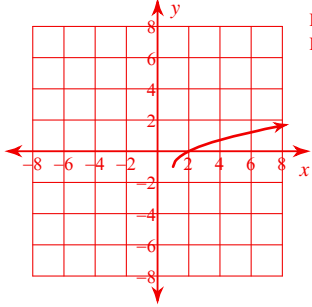
Domain:  $x \geq 4$   
Range:  $y \geq 3$

$$18) y = \sqrt{x-2} - 4$$



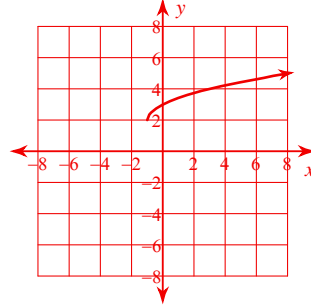
Domain:  $x \geq 2$   
Range:  $y \geq -4$

$$19) y = \sqrt{x-1} - 1$$



Domain:  $x \geq 1$   
Range:  $y \geq -1$

$$20) y = \sqrt{x+1} + 2$$



Domain:  $x \geq -1$   
Range:  $y \geq 2$