MasterMath

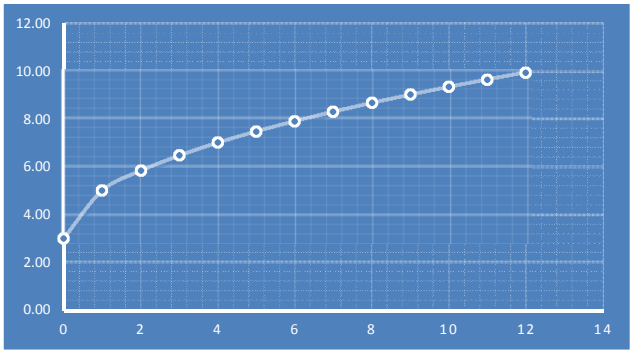
Graphing Radical Equations

Name _____

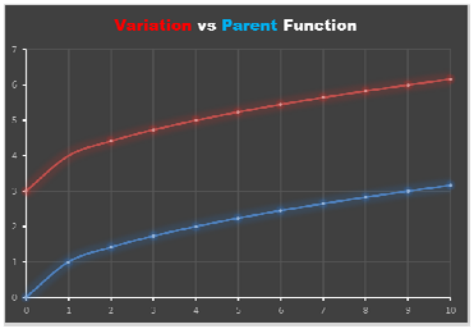
Date _____

1. **Please graph: $y = 2\sqrt{x} + 3$**

x	y
-2	#NUM!
-1	#NUM!
0	3.00
1	5.00
2	5.83
3	6.46
4	7.00
5	7.47
6	7.90



2. **Which of these equations could be represented by the red graph?**



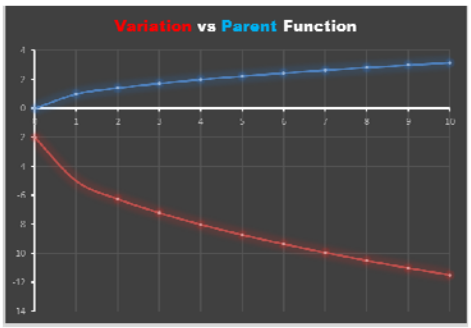
a. $y = .5\sqrt{x} + 1$

b. $y = \sqrt{x} + 3$

c. $y = 3\sqrt{x} + 3$

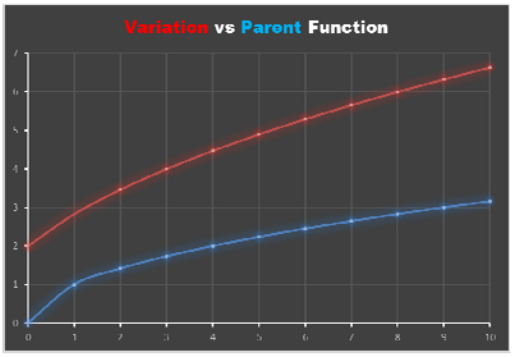
d. $y = \sqrt{(x + 4)} + 4$

3. **Compare the red graph to the blue graph (Parent Square Root Function).**



The red graph shows vertical translation, and reflection around the x-axis.

4. **Graph The Parent Square Root Function and $y = 2\sqrt{(x + 1)}$.**



5. **Describe how this equation varies from the parent function: $y = -\sqrt{x} + 3$**

Reflection around x-axis; vertical translation upward.