Name: _____   Date: _____   Period: _____

Identify the domain and range of each using set notation.

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

D: _____

R: _____

2. $y = \sqrt{x+2} - 3$

D: _____

R: _____

3. $y = \sqrt[3]{x+1} - 4$

D: _____

R: _____

4. $y = \sqrt[3]{x-1} - 1$

D: _____

R: _____

On a separate piece of graph paper, sketch the graph of each function. Make sure to include your table of values and label your graph. Identify the domain and range for each using interval notation.

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

D: _____

R: _____

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

D: _____

R: _____

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

D: _____

R: _____

8. $y = \sqrt{x} + 4$

D: _____

R: _____

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

D: _____

R: _____

10. $y = \frac{1}{2}\sqrt[3]{x+1} + 4$

D: _____

R: _____

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

D: _____

R: _____

12. $y = -2 + \sqrt[3]{x}$

D: _____

R: _____

13. $y = 4\sqrt{x-2} - 1$

D: _____

R: _____

14. $y = -\frac{3}{4}\sqrt{x-1} + 4$

D: _____

R: _____