

## Assignment

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

**Identify the domain and range of each.**

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

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

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

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

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

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

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

8)  $y = \frac{4}{5}\sqrt{x} + 5$

9)  $y = -\sqrt[3]{x}$

10)  $y = \frac{2}{5}\sqrt[3]{x}$

11)  $y = \sqrt[3]{\frac{x+1}{8}}$

12)  $y = \sqrt{x+4}$

13)  $y = \sqrt[3]{x-1} - 5$

14)  $y = \sqrt{x+3}$

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

16)  $y = \sqrt{x}$

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

18)  $y = \sqrt{x} + 4$

19)  $y = -\frac{3}{4}\sqrt{x+2}$

20)  $y = \sqrt{x+6} - 5$

21)  $y = \sqrt[3]{\frac{27x+162}{64}} - 3$

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

23)  $y = -\frac{3}{4}\sqrt{x+4} - 1$

24)  $y = 2 + \frac{1}{2}\sqrt[3]{x+2}$

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

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

27)  $y = -\frac{2}{3}\sqrt{x-1} + 5$

28)  $y = -4 - \frac{4}{5}\sqrt{x-1}$

29)  $y = \sqrt{16x-32} - 5$

30)  $y = -\frac{2}{5}\sqrt[3]{x-4} + 5$