Name_____ ID: 1

Assignment

Date_____ Period____

Identify the domain and range of each square root function. Then sketch the graph.

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

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

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

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

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

6) $y = -3 + 3\sqrt{x+1}$

7) $y = 2\sqrt{x+6} - 3$

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

9) $y = 3\sqrt{x+4} - 5$

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

Identify the domain, range, and turning point of each cube root function. Then sketch the graph.

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

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

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

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

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

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

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

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

19) $y = 2\sqrt[3]{x+3} - 1$

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