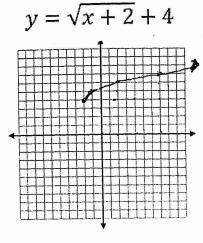
Intermediate Algebra B 7.1 Graphing Square Roots Day 1



1. Graph the square root function without using a calculator!



2. Use your graph from problem #1 to answer the following questions:

Domain: <u>X ≥ -2</u>

Range: $\frac{y \ge 4}{(-2, 4)}$ Starting Point: (-2, 4)

How did the graph change from its parent graph of

4. Use the table of values to answer the questions:

 $y = \sqrt{x}$? Les+2

UP 4

- 3. Use the following square root function to answer the questions:
- X 0 error error 1 2 1

2.4142

2.7321

2

3

3

4

5

6

Domain: x≥2 Range: YZ|

Starting (2,1)Equation: $\sqrt{z} \sqrt{\chi}$

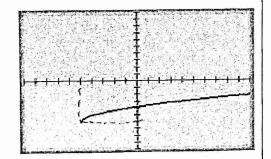
 $y = \sqrt{x - 4} - 1$ Starting Point: (2)

Domain: X 2 4

Range: $\sqrt{2}$ –1

5. Write an equation that will model the graph below

Equation: Y= VX+5 66



6. Write a square root function that is decreasing, has been shifted to the right 1units, and has been shifted up 4 units from its parent function. Sketch a graph of your function.