

Integrated Algebra 2

Unit: Transformations

Discovering the Elementary/Parent Functions

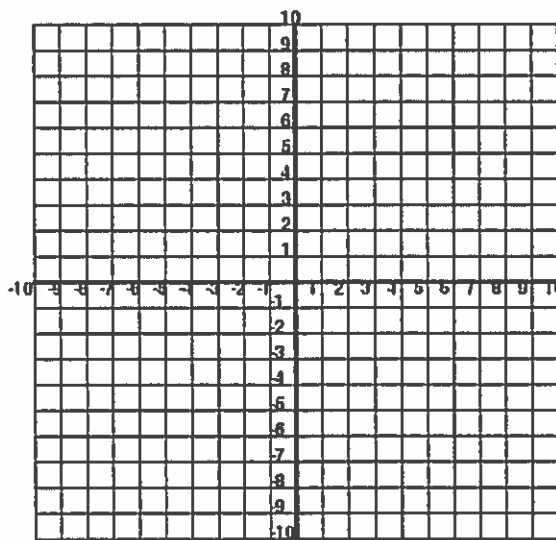
Name: _____

Date: _____

INSTRUCTIONS: For each function provided below, you must sketch an accurate graph on the corresponding grid by point-plotting and connecting the points. You will find the domain and range by looking at the graphs of the functions. We will fill in the "class notes" section after you discover the nine parent functions independently.

1. Parent Function: $y = x$

X	Y
-5	
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	
5	



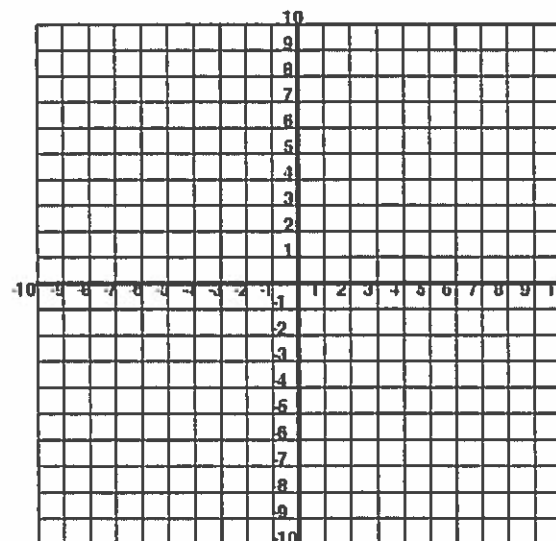
Domain:

Range:

Class Notes – special features of this function:

2. Parent Function: $y = |x|$

X	Y



Domain:

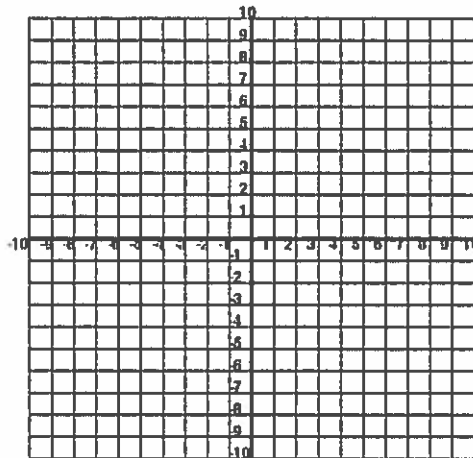
Range:

Class Notes – special features of this function:

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3. Parent Function: $y = x^2$

X	Y



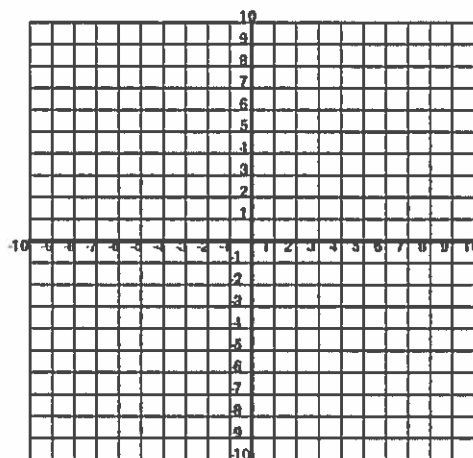
Domain:

Range:

Class Notes – special features of this function:

4. Parent Function: $y = \sqrt{x}$

X	Y



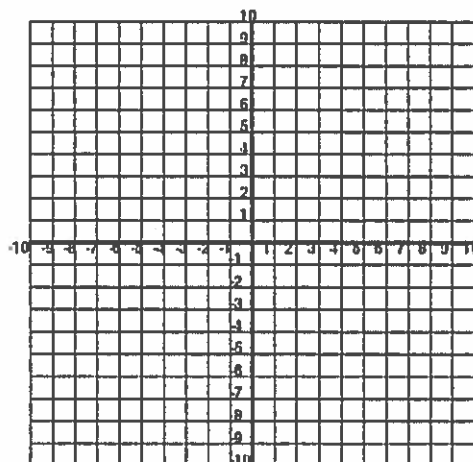
Domain:

Range:

Class Notes – special features of this function:

5. Parent Function: $y = x^3$

X	Y



Domain:

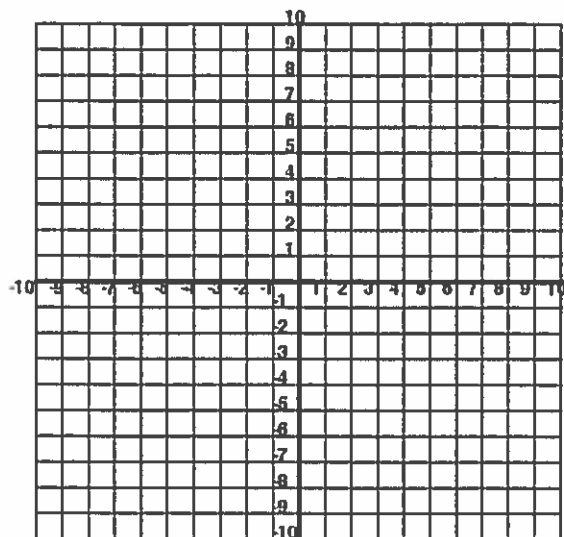
Range:

Class Notes – special features of this function:

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6. Parent Function: $y = \sqrt[3]{x}$

X	Y



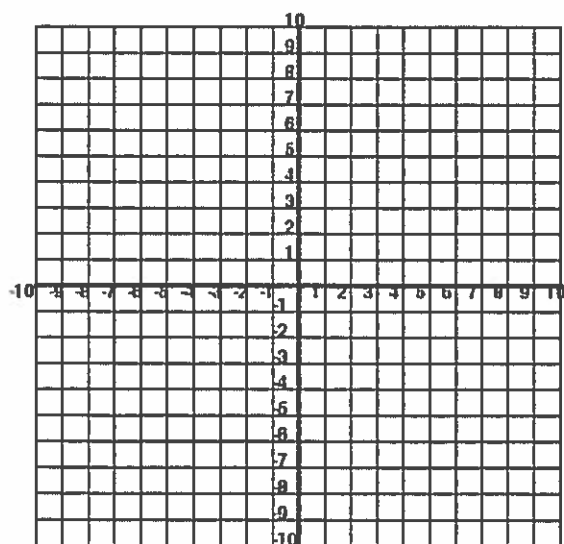
Domain:

Range:

Class Notes – special features of this function:

7. Parent Function: $y = \frac{1}{x}$

X	Y



Domain:

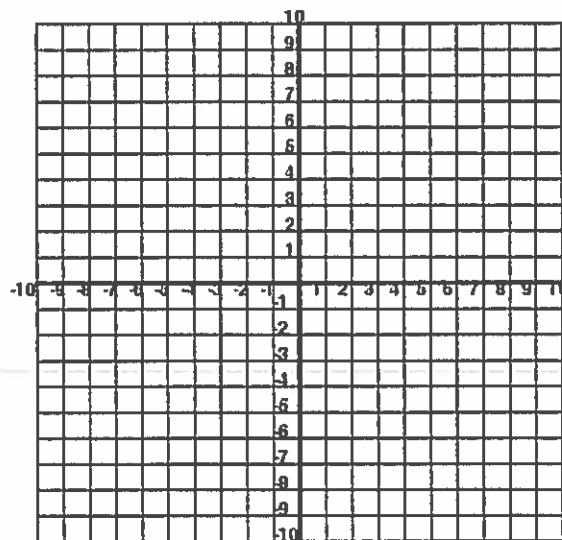
Range:

Class Notes – special features of this function:

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8. Parent Function: $y = \frac{1}{x^2}$

X	Y



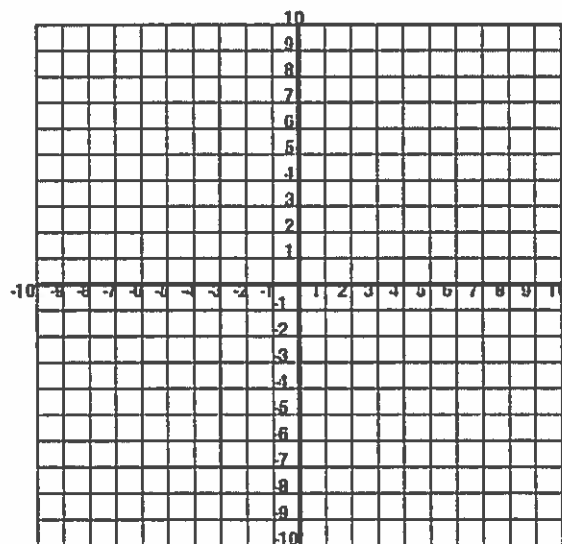
Domain:

Range:

Class Notes – special features of this function:

9. Parent Function: $y = 2^x$

X	Y



Domain:

Range:

Class Notes – special features of this function: