Secondary II Name:

2-3 Graphing Absolute Value Functions Period:

Complete the table and then graph the coordinate pairs.

|  |  |
| --- | --- |
| x | f(x) |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |





State where the graph is increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

State where the graph is decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

State the Domain of the function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

State the Range of the function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Examples

![[image]]()![[image]]()![[image]]()

How are the graphs different?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How are the graphs the same?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the relationship between the graph and the equation?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Discuss with a partner any patterns you may see. Predict what the graph will look like for the following function. Sketch your prediction below.



Examples

![[image]]()![[image]]()

![[image]]()

Discuss with a partner any patterns you may have noticed from the examples above. Predict what the graph will look like for the following function. Sketch your prediction on the given graph below.



Complete the table and use it to graph the solution and check your answer.

|  |  |
| --- | --- |
| x | f(x) |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |

Examples

![[image]]()![[image]]()![[image]]()

Discuss with a partner any patterns you many have noticed from the examples above. Predict what the graph will look like for the following function.



Examples

![[image]]()![[image]]()

Discuss with a partner any patterns you many have noticed from the examples above. Predict what the graph will look like for the following function.



Complete the table and use it to graph the solution and check your answer.

|  |  |
| --- | --- |
| x | f(x) |
| -2 |  |
| -1 |  |
| 0 |  |
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| 2 |  |

Use the information you have gathered from all of the examples and predict and sketch the following function.

