Name_____

Introduction to Functions
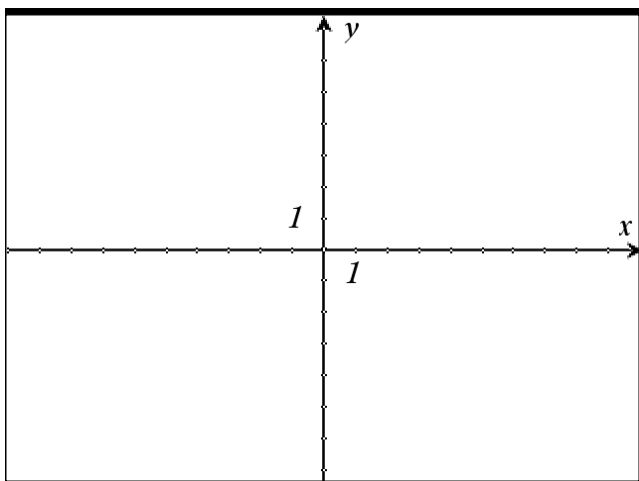
Open the file "Introduction to Functions"

Press ⟨on⟩ ⟨⌂⟩ ❼ for On, Home, My Documents. Then Select the tns. file named Introduction to Functions.

**Read page 1.1**

Press Control, right click (⟨ctrl⟩ ▶ )

Look at the data on 1.2.
Sketch what you think the graph would look like.

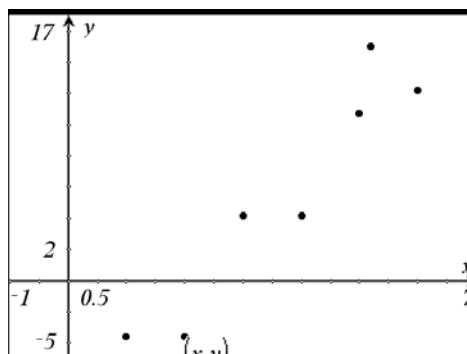| | Introduction to Functions. |
|---|---|
| | Function − |
| | A relationship between 2 variables in which the first variable is paired with exactly 1 value of the second variable. |
| | For each *x*, there is 1 and only 1 *y*. |

| | A x | B y | C |
|---|---|---|---|
| ◆ | | | For each *x*, is there exactly 1 *y*? |
| 1 | 1 | -3.6 | |
| 2 | 2 | -3.6 | |
| 3 | 3 | 4.2 | |
| 4 | 4 | 4.2 | What would the graph of this data look like? |
| 5 | 5 | 10.7 | |
| 6 | 6 | 12.2 | |
| A1 | 1 | | |

Press Control, right click (⟨ctrl⟩ ▶ )

Look at the graph on 1.3

Do you think this would be a graph of a function?_____

Why or why not?_____

Press Control, right click (⟨ctrl⟩ ▶)

Answer the questions on page 1.4 Refer back to the graph if needed. (⟨ctrl⟩ ◀)

Did any points appear directly over each other?

Was there a value of *x* used with 2 or more values of *y*?

Press Control, right click (⟨ctrl⟩ ▶)

Follow the directions on slide 1.5 and 1.6.

Grab the point (⟨ctrl⟩ ⊛) and move the vertical line across the function.

Use this information to answer the question page 1. 7

Did the vertical line intersect the graph in more than 1 place at a time?

_____

Read and follow the directions on pages 1.8 and 1.9.

Did the vertical line intersect the graph in more than 1 place at the same time?  This is NOT a function. It does NOT pass the Vertical line test.

_____

Based on your observations, look at the graphs on 1.10.

Which graphs would represent a function?

_____

Write a definition of "Function" in your own words.

_____

_____

_____