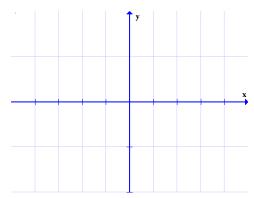
**TRS 92** 

## **TRS 92: Introduction to Functions**

Read Section 3.6 p. 296-297 in your textbook.

## **Thinking Back**

1. Review from Section 3.1.



- a. Label each of the quadrants and the origin on the grid.
- b. In which quadrant(s) is the *x*-coordinate positive and the y-coordinate negative?
  - c. In which quadrant(s) are both coordinates negative? \_\_\_\_\_
- 2. What is an integer? (look it up in your text if you don't know)
- 3. Give three examples of numbers that are *not* integers (called non-integers).
- 4. Read the about the vertical line test on p. 301 (Section 3.6) of your textbook and review Example 5 on p. 302. Explain how the vertical line test relates to the definition of a function.

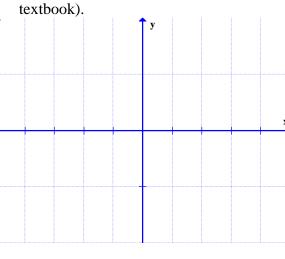
5. Make a table of values that is a function with *x* as the independent variable.

x	y

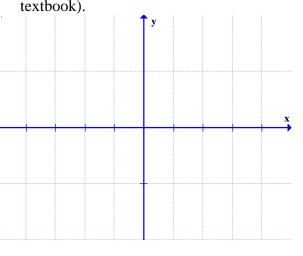
6. Make a table of values that is not a function with *x* as the independent variable.

x	у

7. Draw a graph that is a function (must be different from the examples in the textbook).



8. Draw a graph that is not a function (must be different from the examples in the textbook).

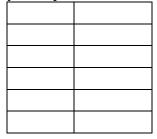


- 9. Refer back to #5 in the Day 9 Activity, Writing Expressions.
  - a. Define the variables for the situation described in this problem:

Independent:

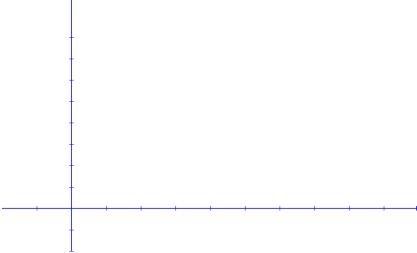
Dependent:

- b. Write an equation that represents the life expectancy of non-white males living in the US.
- c. Use the equation to complete a table of values with at least 5 ordered pairs. At least two of your inputs must be non-integers. Label each column with the variable.



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d. Graph the function. Label axes and scales.



- e. Give examples of two ordered pairs that are *not* solutions to this equation.
- 10. Define the variables for each situation given. (Just define the variables, don't answer the questions.)
  - a. Lisa is paid \$9 per hour. What is her total pay?

Independent:

Dependent:

b. The road crew can pave ¼ mile every 2 hours. How many miles do they pave?

Independent:

Dependent:

c. The water company charges its residential customers a flat fee of \$45 plus 3 cents per gallon consumed. What is the total bill?

Independent:

Dependent:

Do Textbook exercises: Section 3.6 p. 304: #1-3, 6, 8-14