

Name: Key Class: \_\_\_\_\_ Date: \_\_\_\_\_

ID: A

The test will have 18 multiple questions and 1 gridable question.

You will need to know how to determine functions by mapping, table, coordinate pairs and graphing.

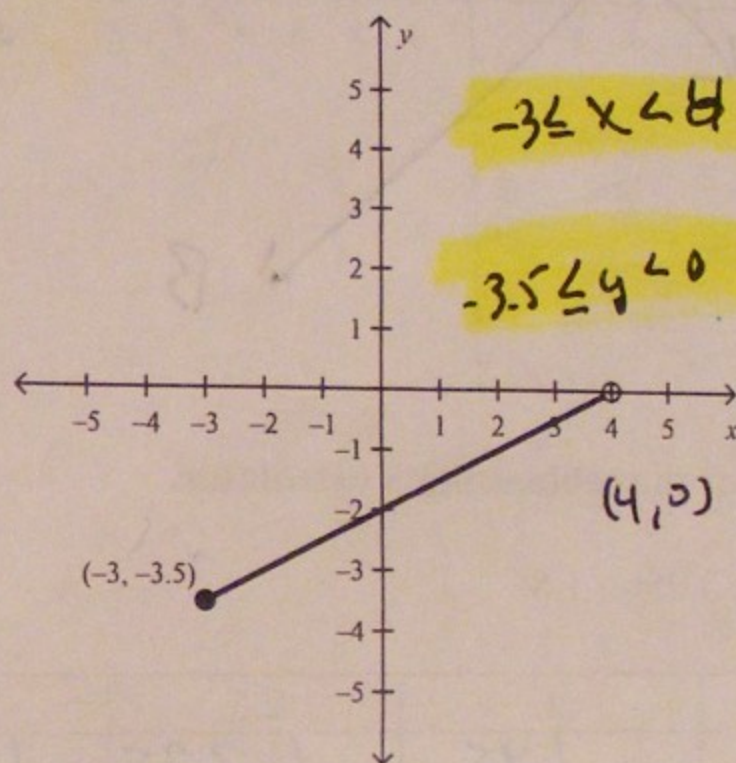
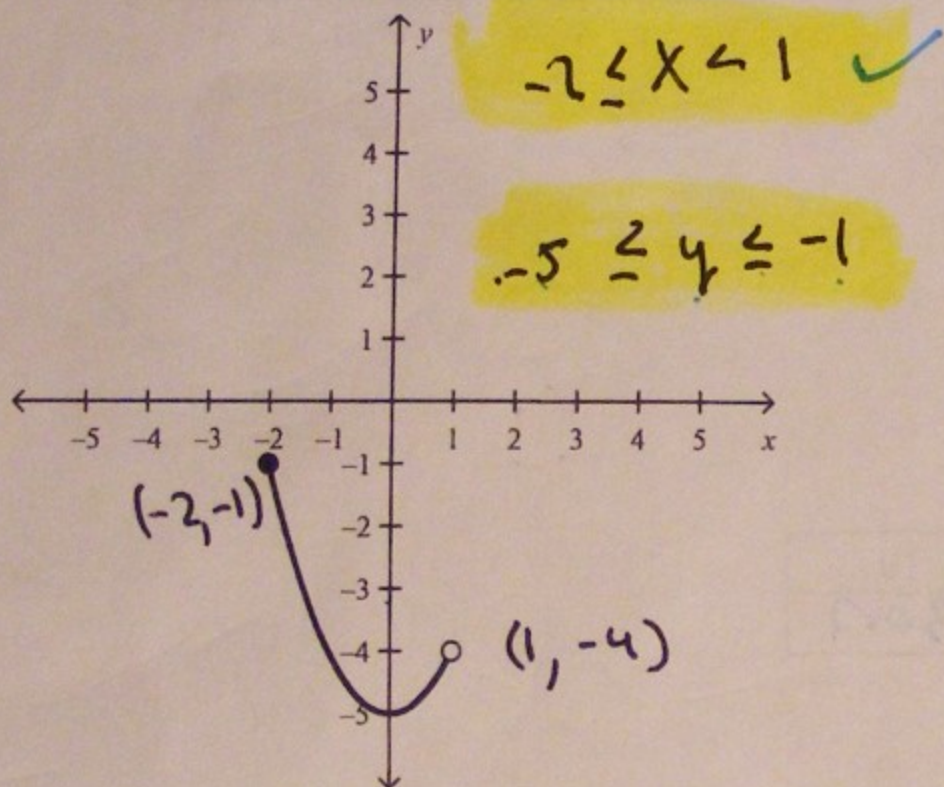
You will need to know the following: discrete, continuous, input, output, domain, range, dependent and independent variables, function, proportion and linear functions.

You will need to know how to be able to write an equation or function from a written description.

## Unit 2 Review

### Short Answer

Find the domain and range in the following questions.



1.  
3.

Domain  $\{-5, 2, 4, 7\}$   
 Range  $\{3, 5, 8\}$

x	y
-5	3
2	5
4	5
7	8

function

4. What is the domain for  $f(x) = 3x - 2$  with a range of  $\{-8, -2, 7\}$

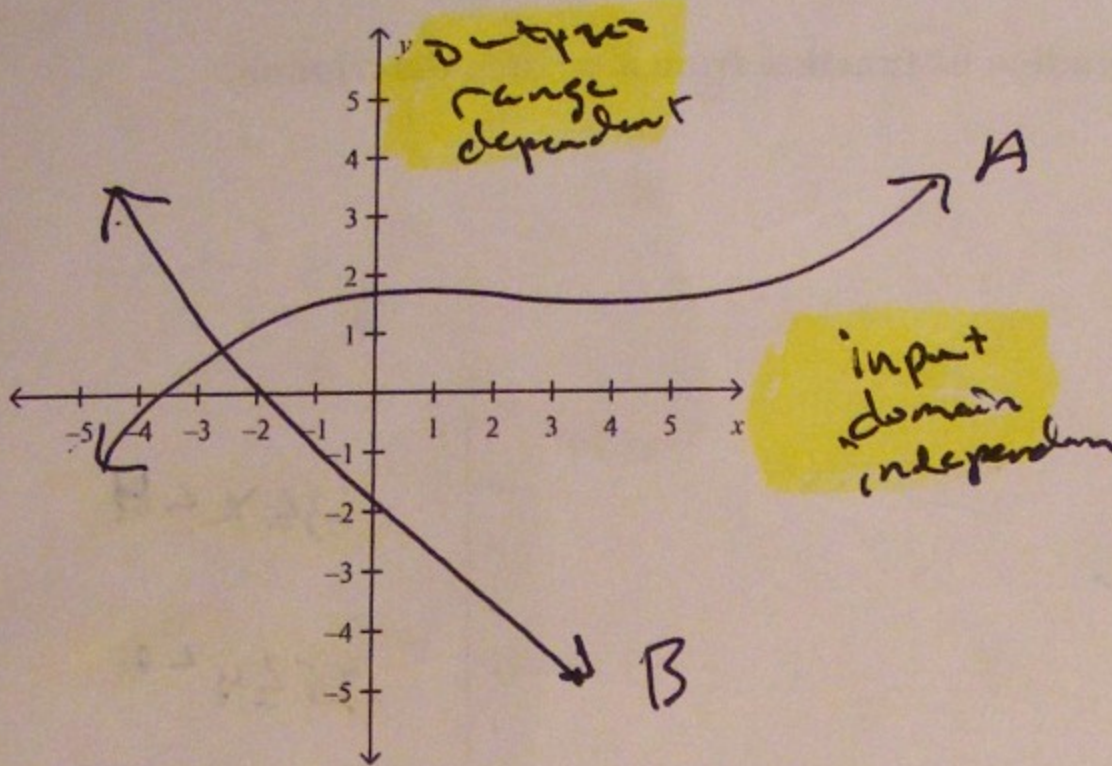
$\{-2, 0, 3\}$

x	$3x - 2$
-2	-8
0	-2
3	7

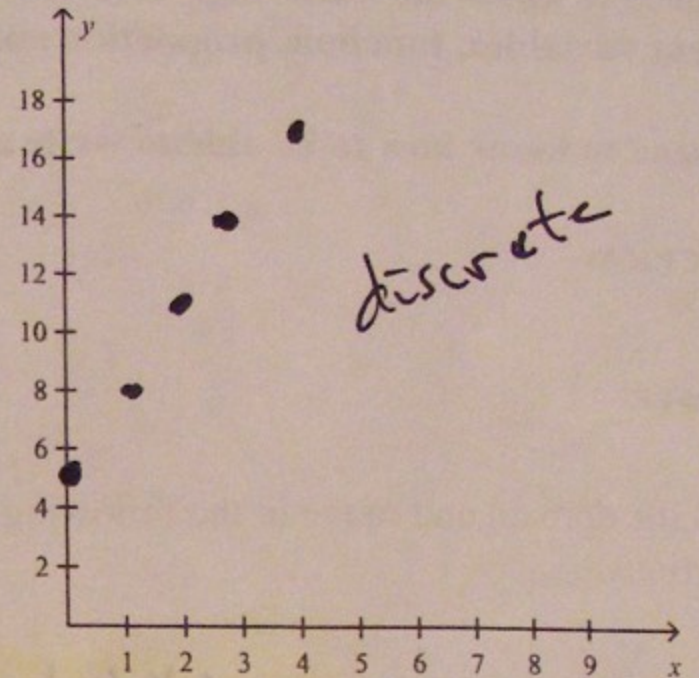


5. Label the following on the graph: input, output, domain, range, independent, dependent.

Show a curve that is non linear (label A). Show a linear function that is non-proportional (label B).



6. Graph the function  $f(x) = 3x + 5$  which represents that cost of bowling at \$3 per game and \$5 for a pair of shoes for up to five games.



Fill out the table using a calculator.

7.  $f(x) = 3.25x - 1.8$

x	1	2.5	4	10
f(x)	1.45	6.375	11.2	30.7

8.  $f(x) = 2.35 - 2x$

x	0	3.5	7	10.5
f(x)	2.35	-4.65	-11.65	-18.65

9. Give an example of a discrete function.

buying a car

Give an example of a continuous function.

buying gas for the car

10. Is it possible to have a non-linear proportional function?

no must go through the origin and be a straight line