

**Math Quiz** -4.1 Functions

Name: \_\_\_\_\_

Directions: A line on a graph is represented by the rule:

$$y = -2x^2$$

1. Does the ordered pair  $(-2, 3)$  belong on the line?

3. If  $(a, -50)$  belongs to the line, find  $a$

2. Does the ordered pair  $(-2, -2)$  belong on the line?

4. If  $(2z, -j)$  belongs to the line, find  $Z$

Directions: Evaluate each expression given

$$f(x) = 5x - 2, g(x) = x^2 + 3x - 2 \text{ and}$$

$$h(x) = \sqrt{x-1}$$

5.  $[g(-3) - f(-4)] / h(65)$

6.  $f(-2) + h(1)$

7. Draw an example of a line on a graph that IS a function.

8. Draw an example of a line on a graph that IS NOT a function