Name: _____ is Talented! ☺

Math 115 Spring 2026
Mr. Sahney

Standard 3 Practice

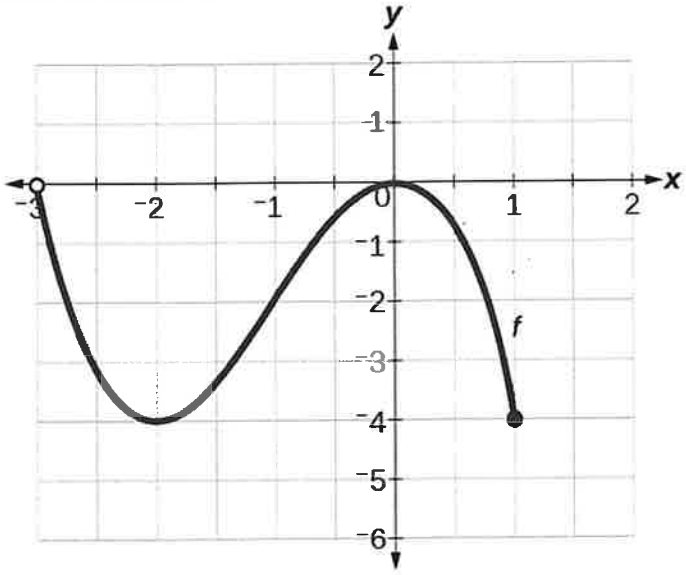
1. What is a function? Explain and give an example.

2. Does the set of ordered pairs represent a function? Explain. If it is a function, state the domain and range.

a. $\{(-2,8),(1,0),(3,4),(5,-3),(9,-6)\}$

b. $\{(5,2),(6,-2),(0,1),(5,-3),(10,-7)\}$

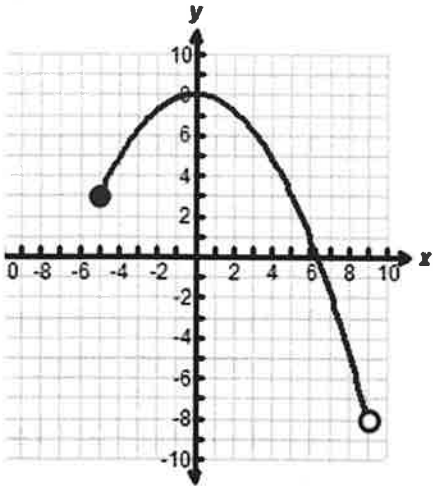
3. Does the graph represent a function? Explain. If it does, State the domain and range in interval notation.



Fall 2024 Final

4. Use the graph of $g(x)$ shown at right to answer the following questions:

a. Is $g(x)$ a function? Explain your answer.



b. What is $g(0)$?

c. Find the value(s) of x for which $g(x) = 0$.

d. What is the domain of $g(x)$ in interval notation?

e. What is the range of $g(x)$ in interval notation?

5. Let $f(x) = -8x + 5$. Evaluate and simplify

a. $f(-4) =$
b. $f(-1) =$
c. $f(6) =$
d. $f(0) =$
e. $f(a) =$
f. $f(a + b) =$

6. Let $f(x) = 3x^2 + 2x - 4$. Evaluate and simplify

a. $f(-3) =$
b. $f(-2) =$
c. $f(4) =$
d. $f(-a) =$
e. $2f(a) =$
f. $f(a) + f(2) =$