WS#3 Solutions

Math 109 College Algebra Lecturer: Calvin Hotchkiss Group Worksheet 3

Fall 2024 TA: Samir Donmazov

Indicate which group member is taking on which of the following four roles. You will switch roles on the next recitation day.

- Reader: Reads the problem to the group and makes sure everyone understands.
- Spokesperson: presents the work and asks questions to the TA.
- Recorder: writes everyone's names and the group's work on the worksheet.
- Timekeeper: keeps track of time.

- (1) Suppose f(x) is given by the graph to the right.
 - (a) What is f(4)?

f(4) = 1

(b) Solve f(x) = 3.

x = 0 so that f(o) = 3



(2) Let g(x) be defined by g(x) = 13.
(a) What kind of function is this?

g(x) is a constant function because the output is always the same "13" for any input "x" (b) Evaluate g(2) = 13

(c) Evaluate g(-5) = /3

(d) Solve g(x) = 7There is no such "x" such that g(x) = 7 blc g(x) = 13 for all X.

- (3) Let h(x) be defined by $h(x) = \frac{2x-1}{x+1}$. =) $h(-2) = \frac{2 \cdot (-2) 1}{-2 + 1} = \frac{-5}{-1} = 5$ (a) Evaluate h(-2).
- (4) Let j(x) be defined by the table to the right.
 (a) Evaluate j(2).
 - j (2) = 5
 - (b) Solve j(x) = 2.

x = 8 so that j(8) = 2.

	х	$\mathbf{j}(\mathbf{x})$
	-1	8
(2)	5
	5	-1
	8	2
~		