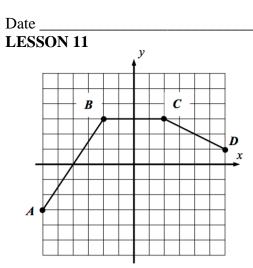
Name _____ UNIT 6B

Do Now: The piece wise linear function f(x) is shown graphed below.

1. Find the slope of each of the line segments:

AB: BC: CD:

- 2. Evaluate:
- a) f(-2) b) f(4) c) f(x) = -3

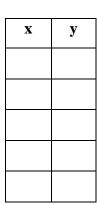


AIM: How Do We Graph Piecewise Functions? (Day 2)

3. On the following graph, complete the tables and graph the following piecewise function

$f(x) = \langle$	$\int 3x-5$	if $x > 4$
	x^2	if $0 < x \le 4$

X	у



- a) What is the domain in interval notation?
- a) What is the domain in set builder notation?

- b) What is the range in interval notation?
- d) What is the range in set builder notation?

- 4. Write the equation for each function whose graph is shown below:
- a) Equation:

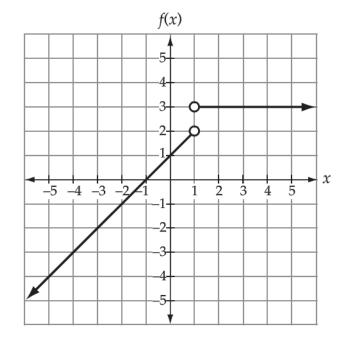
- b) What is the domain in interval notation?
- c) What is the range in interval notation?
- d) What is the domain in set builder notation?

h(x)

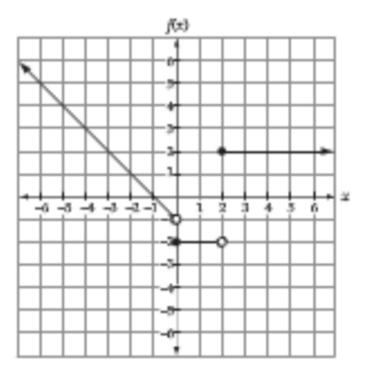
e) What is the range in set builder notation?

- 5. Write the equation for each function whose graph is shown below:
- a. Equation:

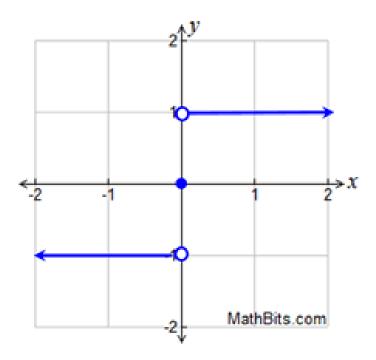
- b. What is the domain in interval notation?
- c. What is the range in interval notation?
- d. What is the domain in set builder notation?
- e. What is the range in set builder notation?



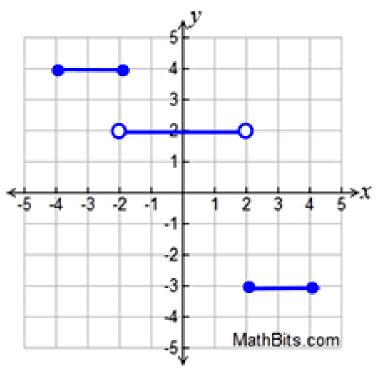
6. Write the equation for the function whose graph is shown below:



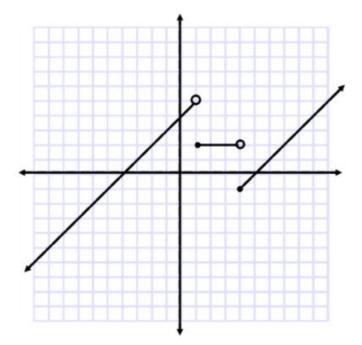
7. Write the equation for the function whose graph is shown below:



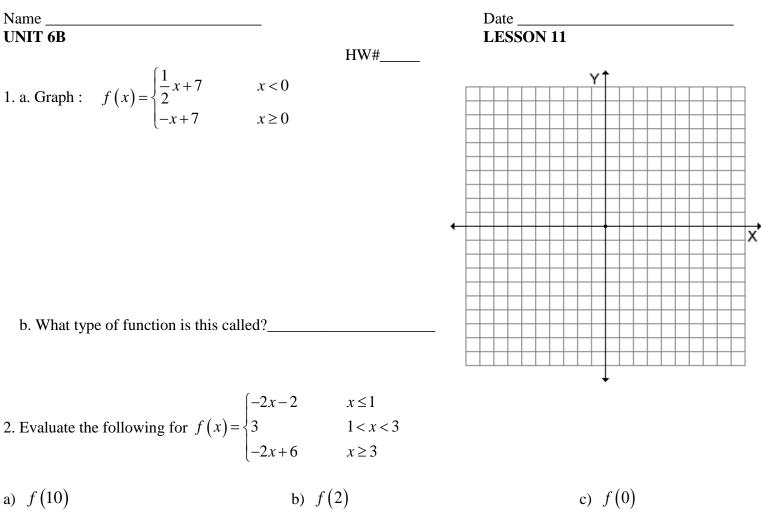
8. Write the equation for the function whose graph is shown below:



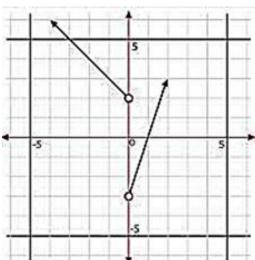
9. Write the equation for the function whose graph is shown below:







- 3. Write the equation for each function whose graph is shown below:
 - a. Equation:
 - b. What is the domain in set builder notation?
 - c. What is the range in set builder notation?
 - d. What is the domain in interval notation?
 - e. What is the range in interval notation?



- 4. Answer the following questions based on the accompanying graph.
- a. Is it a function? Explain why or why not.

b. State the domain in:

set builder notation:

interval notation:

c. State the range in:

set builder notation:

interval notation:

d. Find f(0)

e. Find x if f(x) = -5

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