Activator

Evaluate the expression for g(6) and g(-3).

Page #9

g(x) = 3x - 1

g(6) = 3(6) - 1

g(6) = 18 - 1

g(6) = 17

Need Red, Yellow, Blue from the table.

g(x) = 3x - 1

g(-3) = 3(-3) - 1

g(-3) = -9 - 1

g(-3) = -10

What is g(6) + g(-3)? 17 – 10 = 7

Today's Objective

Unit 3 Review

Students will be able to review Unit 3 Functions questions.

Announcements

Definition

Is the replacement of a variable with a number to determine the answer.

Facts

*It represents substitution.
*ALWAYS replace the x with the number.

A function
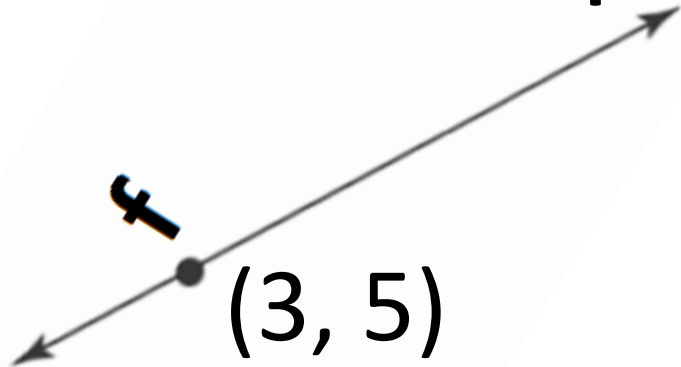
Example(s)

F

(3, 5)

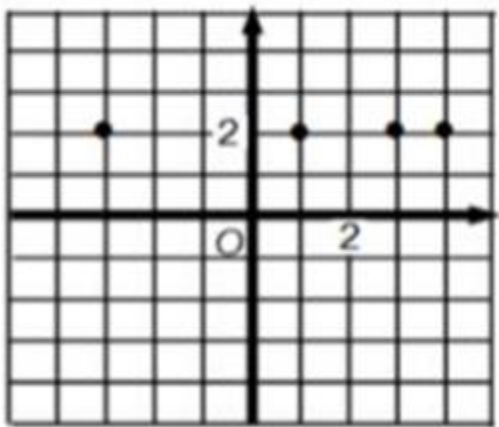Point f is on line F.

| Page #9 |
| Review U3 |

If x = 3

$$F(x) = x + 2$$
$$F(3) = (3) + 2$$
$$F(3) = 5$$

Function or Not?
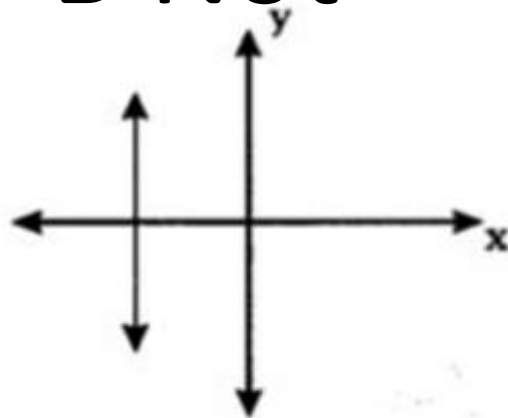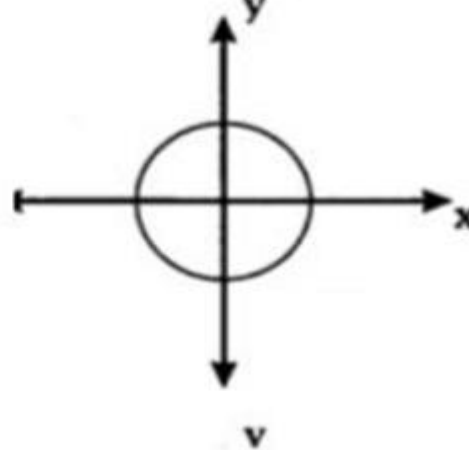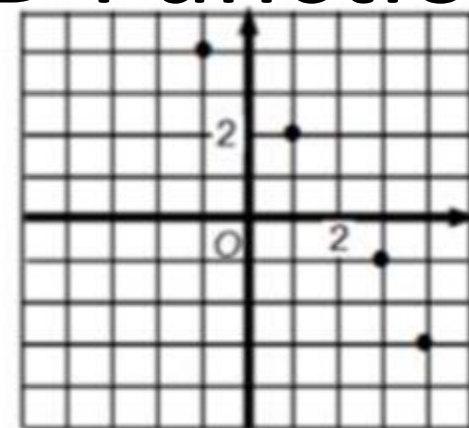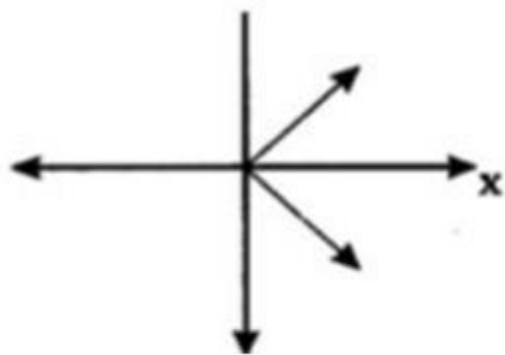
A Function
B Not
C Not
D Function

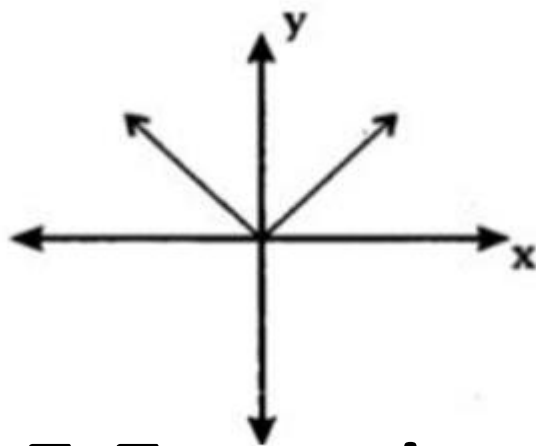A function has ALL different x values.

E Not
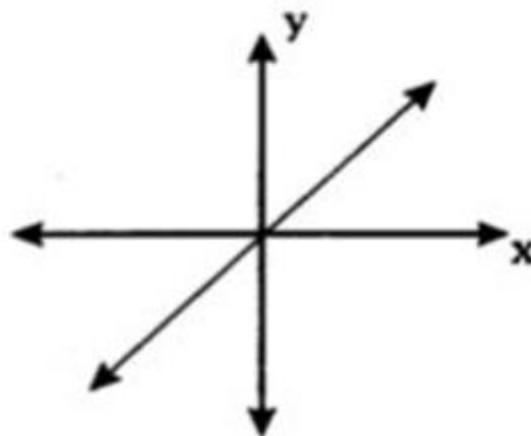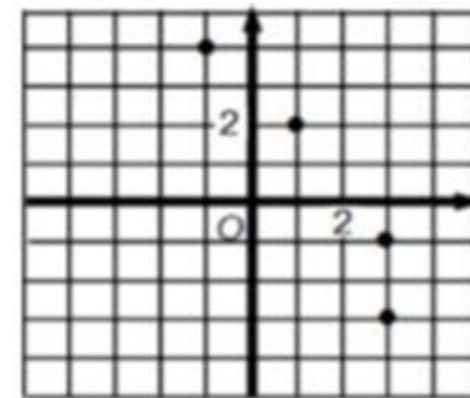F Function
G Function
H Not

Evaluate the expression for g(8) and g(-2).

Page #9

$g(x) = 3x - 1$

$g(8) = 3(8) - 1$

$g(8) = 24 - 1$

$g(8) = 23$

$g(x) = 3x - 1$

$g(-2) = 3(-2) - 1$

$g(-2) = -6 - 1$

$g(-2) = -7$

What is g(8) + g(-2)? 23 – 7 = 16

What is the average rate of change when $0 \leq x \leq 6$?

Make a table

$$f(x) = 3x + 1$$

Page #10
Review U3

$$\frac{Range}{Domain} = \frac{18}{6} = 3$$

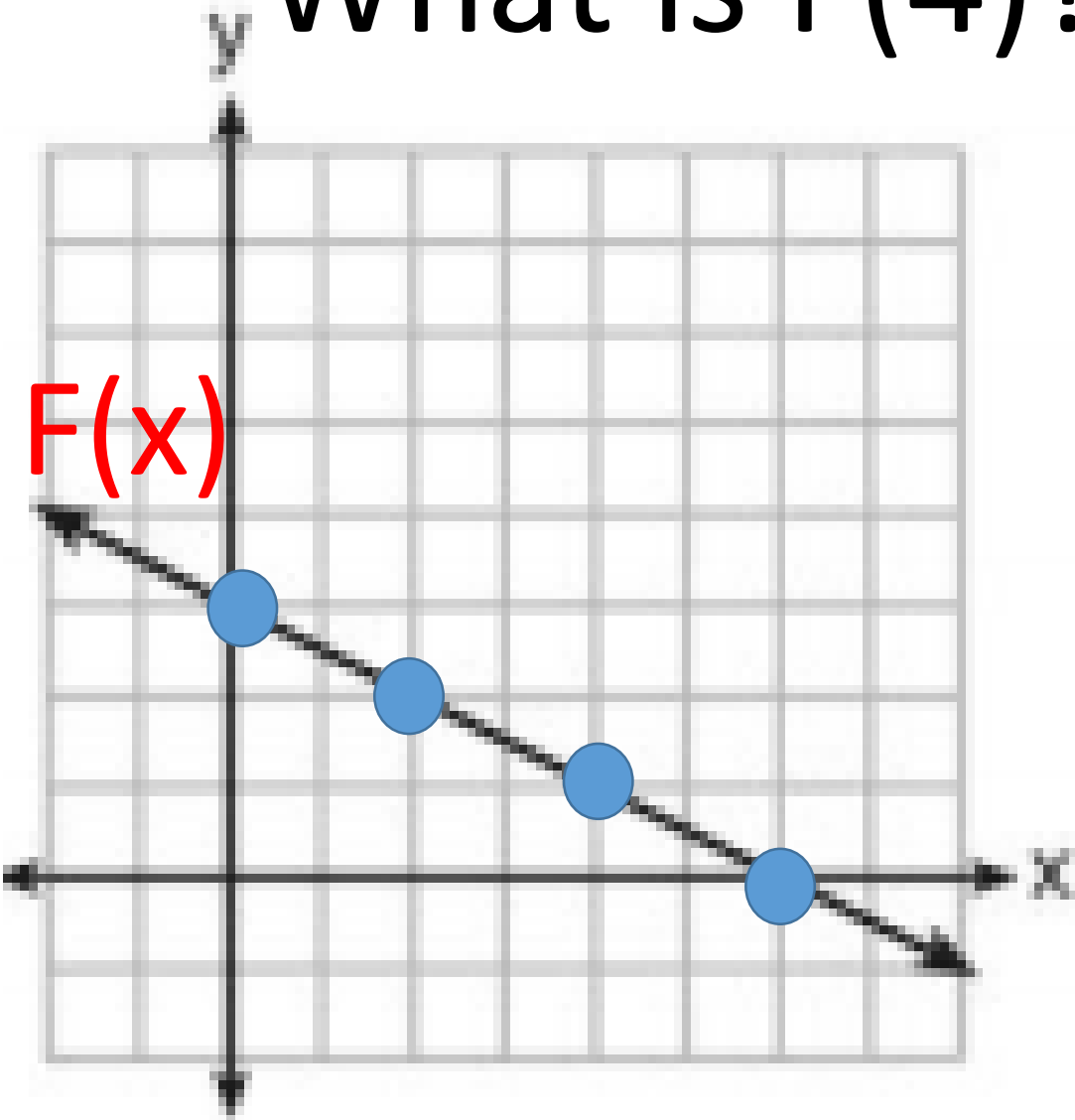| x	Y
0	1
2	7
4	13
6	19

6

18

Group Work Questions

Directions: All groups, please do all of the questions. Use your notes to help you. [Ask 2 people before you ask me.]

Stop at 9:31 or 11:01 or 12:55 or 2:20

*One person from each group will present one question.

Work Period

What is F(4)? (4, 1)

$$F(x) = \frac{-x}{2} + 3$$

$$F(4) = \frac{-(4)}{2} + 3$$

Use Algebra.

$$F(4) = -2 + 3$$

$$F(4) = 1$$

Graph f(4) on your paper.

Exit Ticket

Determine f(-5) using Algebra.

Graph line f <u>and</u> circle f(-5). Make a table.

$$f(x) = x + 2$$

Page #10
Review U3

$$f(-5) = (-5) + 2$$

$$f(-5) = -5 + 2$$

$$f(-5) = -3$$

x	f(x)
-5	-3
-4	-2
-3	-1
-2	0