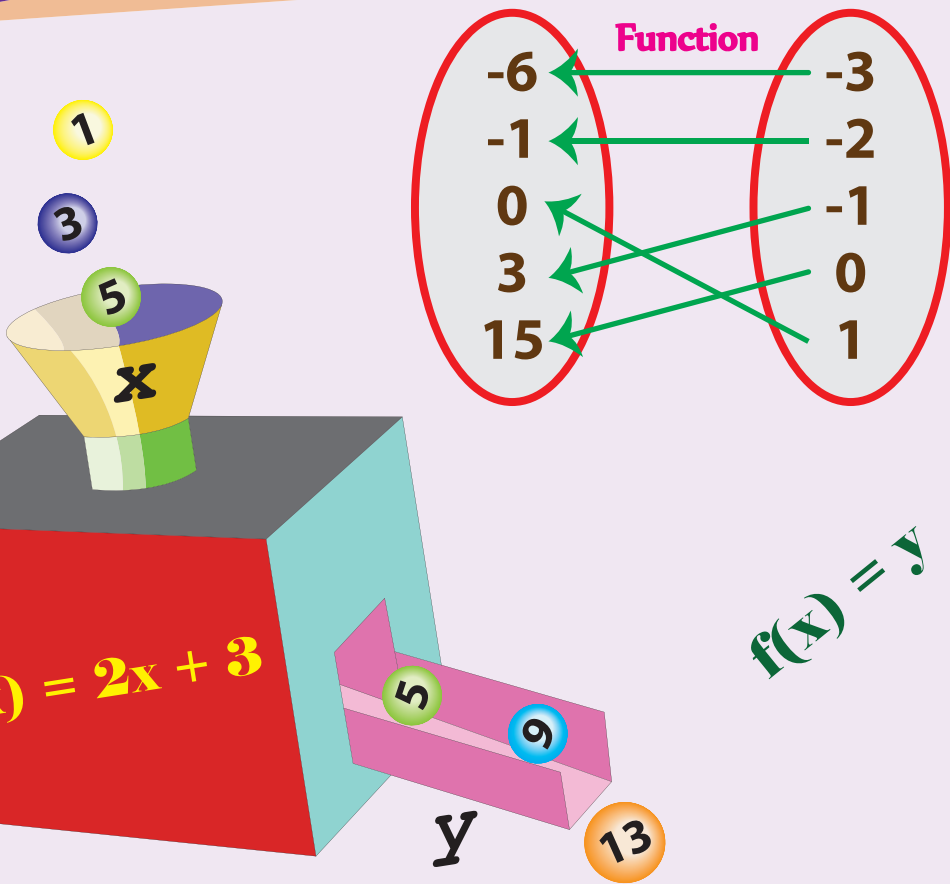


# 8th Grade

# Functions



$$f(x) = x - 5$$

x	f(x)
3	-2
6	1
9	4
12	7
15	10

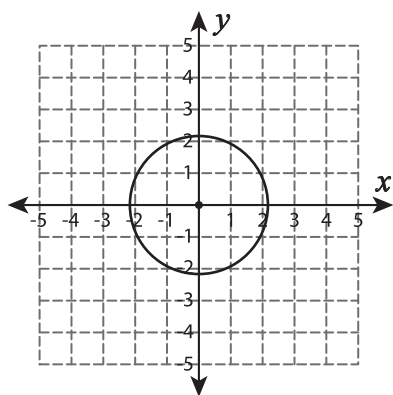
$$y = \{(5, 13), (3, 9), (1, 5)\}$$

# Workbook 1

# Functions

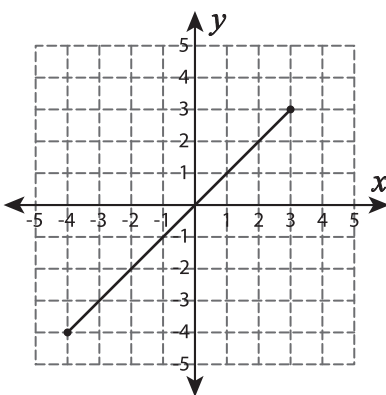
Choose the correct choice that describes the graph.

1)



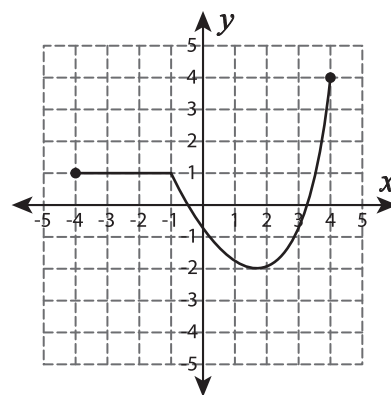
- Function  
 Not a Function

2)



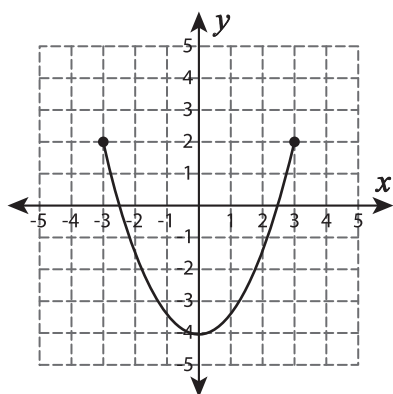
- Function  
 Not a Function

3)



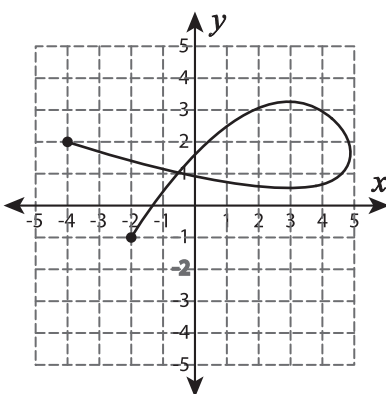
- Function  
 Not a Function

4)



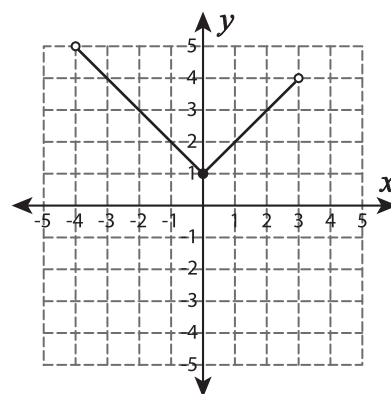
- Function  
 Not a Function

5)



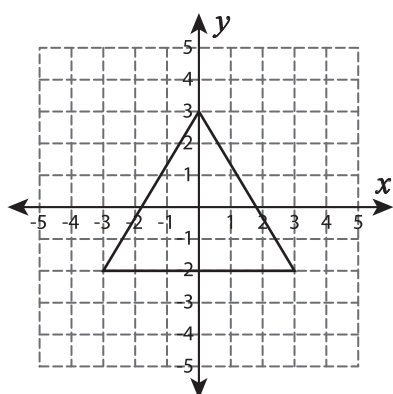
- Function  
 Not a Function

6)



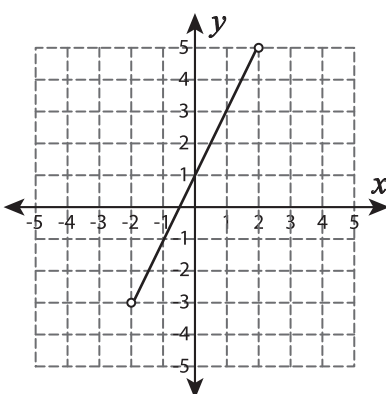
- Function  
 Not a Function

7)



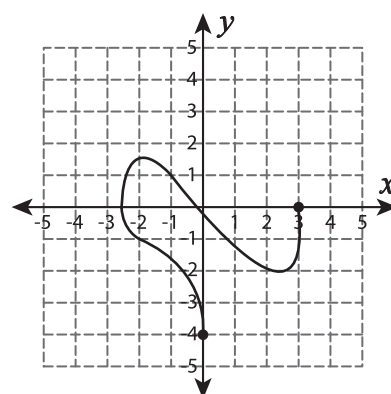
- Function  
 Not a Function

8)



- Function  
 Not a Function

9)



- Function  
 Not a Function

### Ordered Pairs

Example: Find the Domain and Range.

$\{ (1, 2), (2, 5), (3, 1), (1, 6), (4, 8) \}$

Domain =  $\{ 1, 2, 3, 4 \}$       Range =  $\{ 1, 2, 5, 6, 8 \}$

Find the Domain and Range for each set of ordered pairs.

1)  $\{ (3, 2), (5, 7), (1, 4), (9, 2), (3, 7) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

2)  $\{ (6, 2), (3, 5), (9, 0), (5, 7), (8, 1) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

3)  $\{ (1, 9), (2, 7), (5, 4), (7, 12), (3, 9) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

4)  $\{ (0, 2), (3, 3), (8, 7), (2, 2), (3, 9) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

5)  $\{ (11, 3), (6, 5), (7, 1), (9, 7), (8, 3) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

6)  $\{ (6, 1), (9, 2), (6, 8), (9, 7), (8, 3) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

7)  $\{ (1, 9), (0, 8), (3, 0), (4, 9), (7, 7) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

8)  $\{ (9, 9), (7, 4), (1, 2), (2, 6), (5, 0) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

9)  $\{ (1, 1), (2, 3), (3, 4), (4, 2), (5, 1) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

10)  $\{ (8, 4), (6, 2), (1, 9), (3, 8), (0, 7) \}$

Domain : \_\_\_\_\_

Range : \_\_\_\_\_

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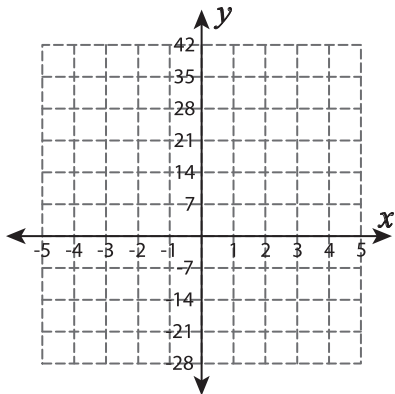
Scroll down for additional free pages.

# Function Table

Complete the function table. Plot the points and graph the line.

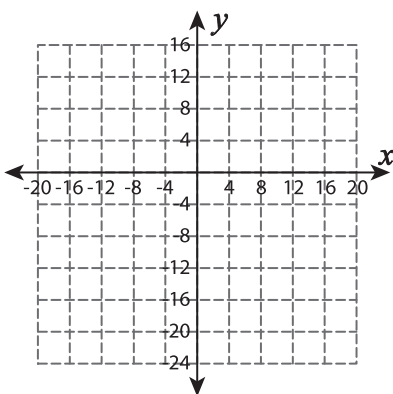
1)  $f(x) = 7x$

$x$	2		4	5
$f(x)$	7		21	



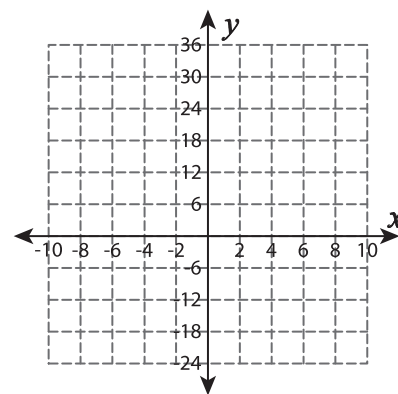
2)  $f(x) = -x - 8$

$x$	-4		8	16
$f(x)$		-12		-20



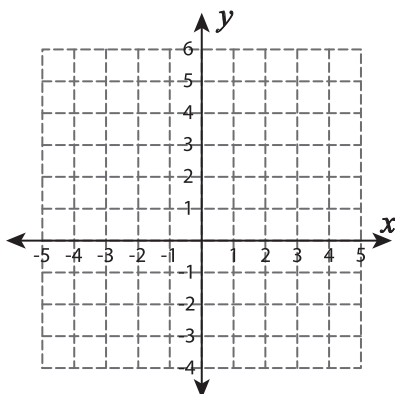
3)  $f(x) = 6 - 3x$

$x$	-10		-6	-2
$f(x)$		30		18



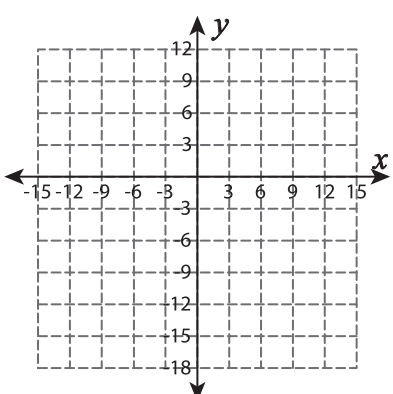
4)  $f(x) = x + 4$

$x$		-1		1
$f(x)$	2		4	6



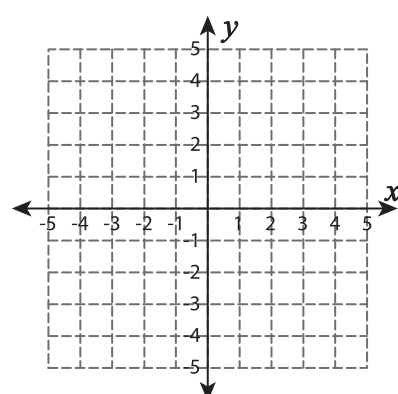
5)  $f(x) = -9 - x$

$x$	-6	-3	0		6
$f(x)$				-12	



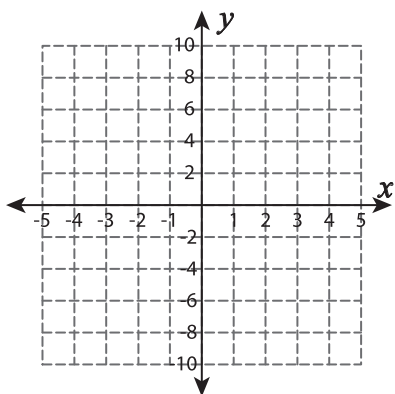
6)  $f(x) = -2x + 5$

$x$			3	4	
$f(x)$	5	3			-5



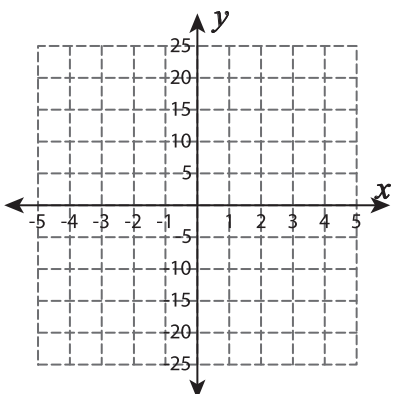
7)  $f(x) = -4 + 2x$

$x$	-2			1	3
$f(x)$		-6	-4		



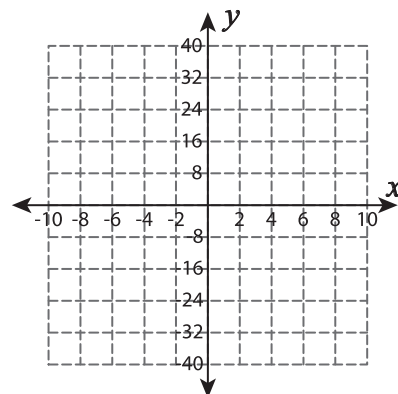
8)  $f(x) = 5x$

$x$		-4		2	
$f(x)$	-25		0		15



9)  $f(x) = 4x - 8$

$x$	-2		4		8
$f(x)$		-8		16	

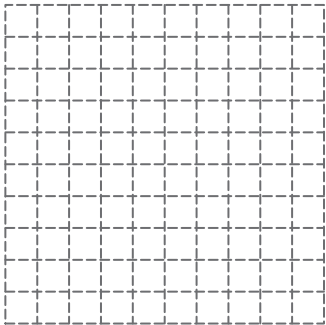


# Function Table

Complete the function table by assuming your own values for  $x$ . Plot the points and graph the line.

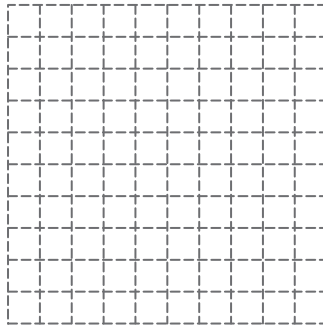
1)  $f(x) = -3 + 3x$

$x$					
$f(x)$					



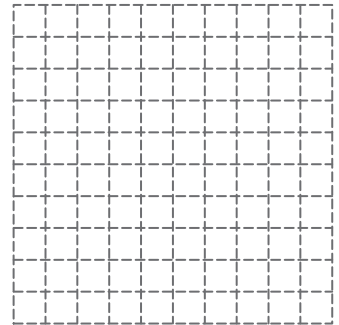
2)  $f(x) = 9x$

$x$					
$f(x)$					



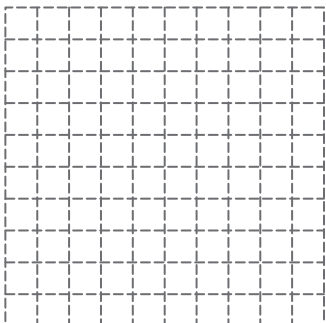
3)  $f(x) = -4 - x$

$x$					
$f(x)$					



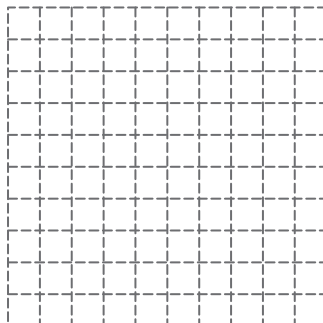
4)  $f(x) = 6x - 3$

$x$					
$f(x)$					



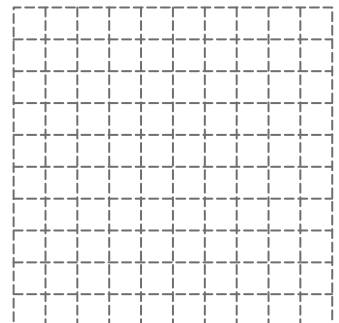
5)  $f(x) = -x - 2$

$x$					
$f(x)$					



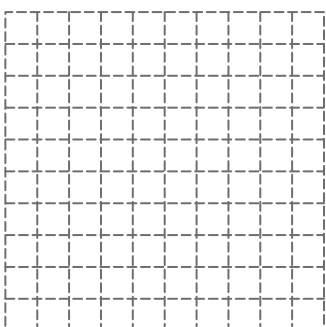
6)  $f(x) = 2x + 1$

$x$					
$f(x)$					



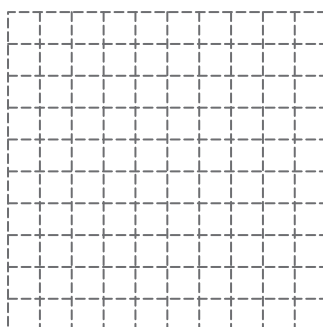
7)  $f(x) = -5x$

$x$					
$f(x)$					



8)  $f(x) = 4x - 6$

$x$					
$f(x)$					



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

$x$					
$f(x)$					

