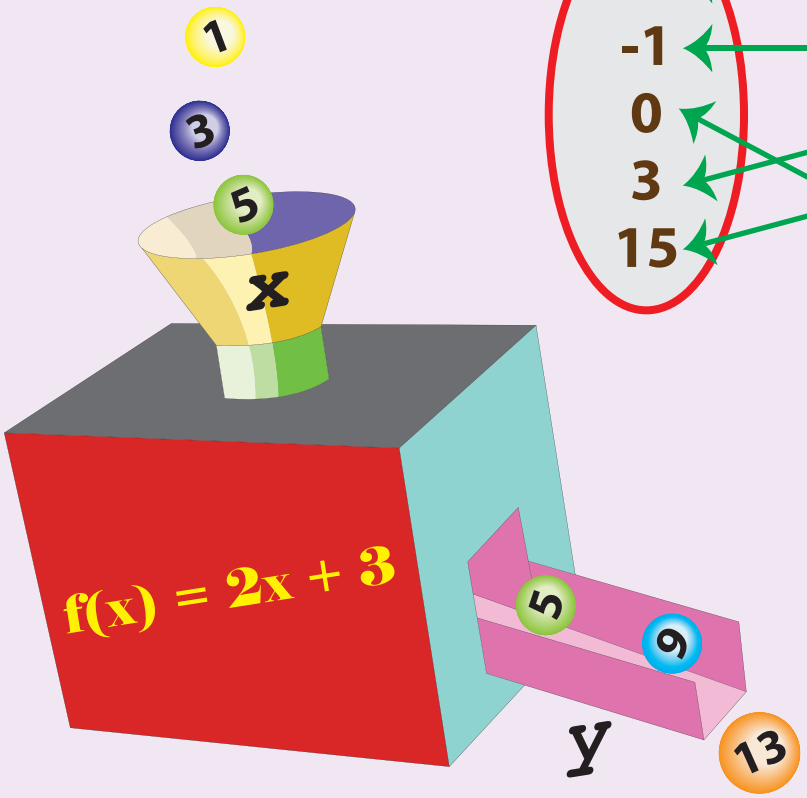
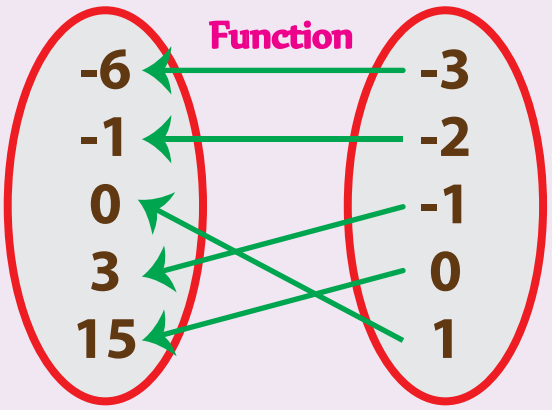
8th Grade Functions





f(x) = y

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

$f(x) = x - 5$

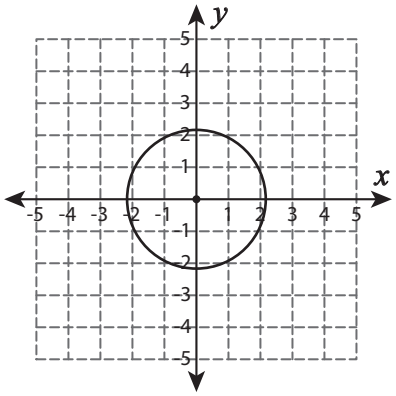
x	f(x)
3	–2
6	1
9	4
12	7
15	10

Workbook 1

Functions

Choose the correct choice that describes the graph.

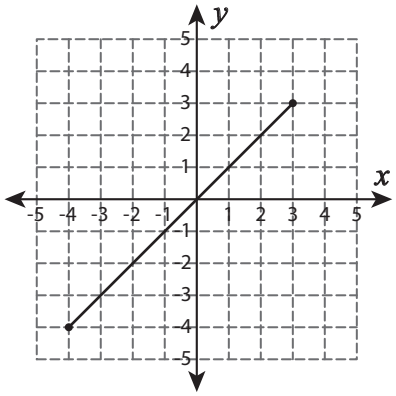
1)



☐ Function

☐ Not a Function

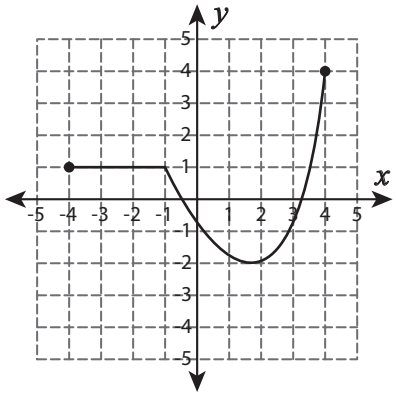
2)



☐ Function

☐ Not a Function

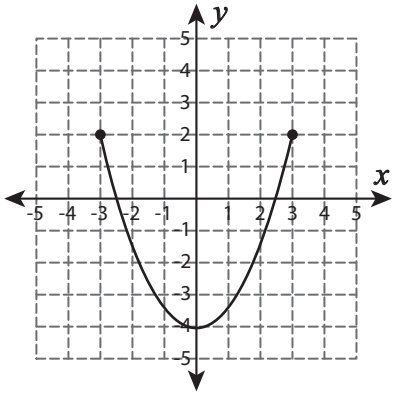
3)



☐ Function

☐ Not a Function

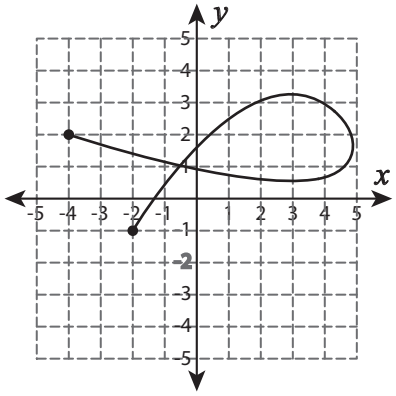
4)



☐ Function

☐ Not a Function

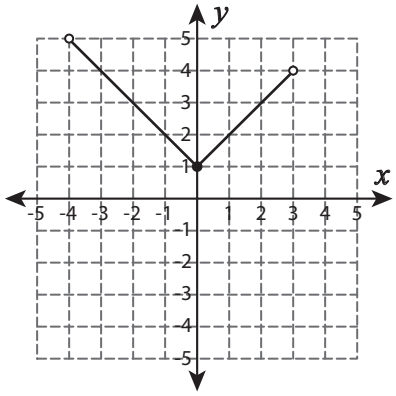
5)



☐ Function

☐ Not a Function

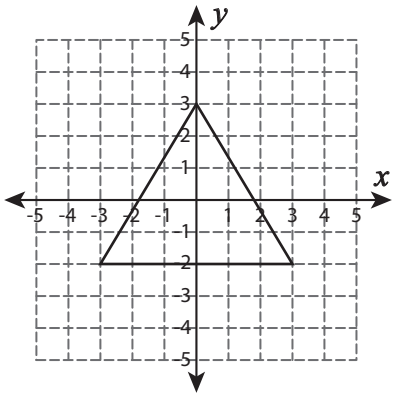
6)



☐ Function

☐ Not a Function

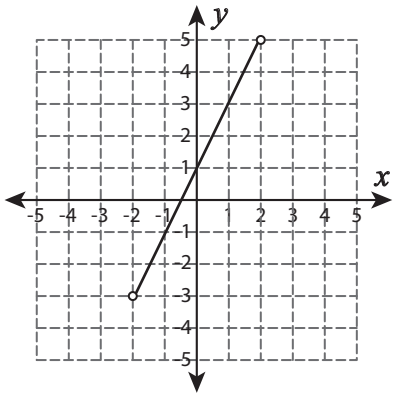
7)



☐ Function

☐ Not a Function

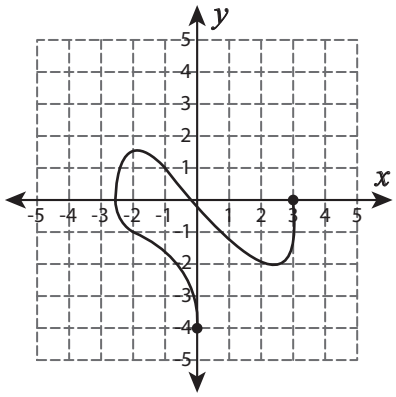
8)



☐ 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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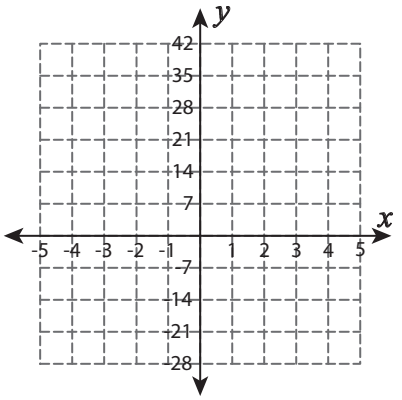
Function Table

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

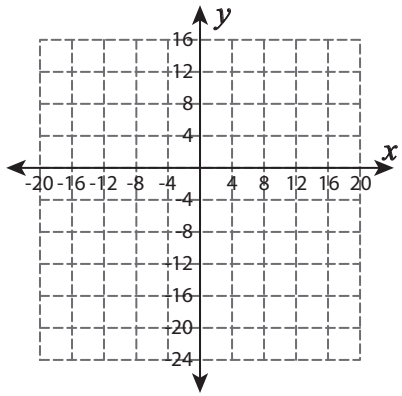
1) $f(x) = 7x$

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



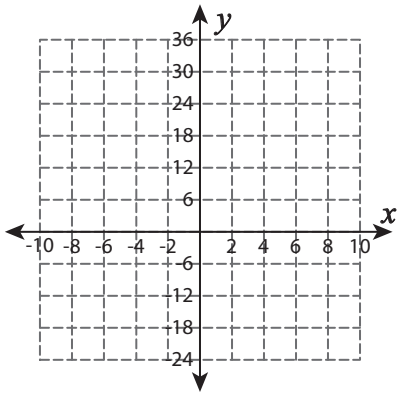
2) $f(x) = -x - 8$

x	−4		8		16
$f(x)$		−12		−20	



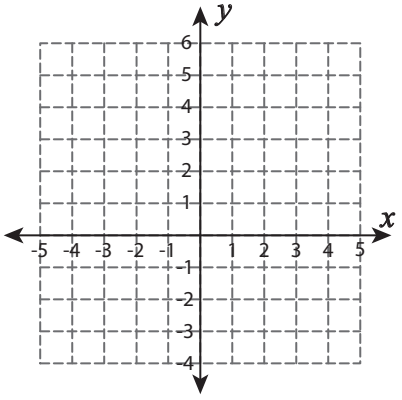
3) $f(x) = 6 - 3x$

x	−10		−6		−2
$f(x)$		30		18	



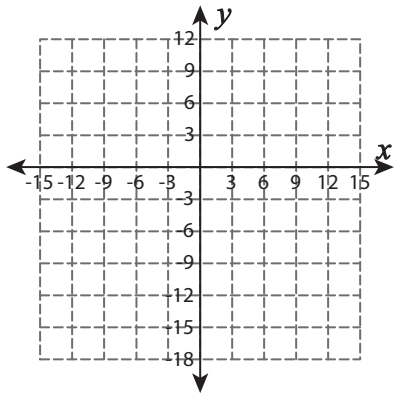
4) $f(x) = x + 4$

x		−1		1	
$f(x)$	2		4		6



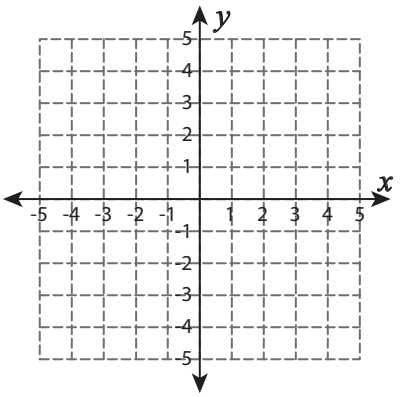
5) $f(x) = -9 - x$

x	−6	−3	0		6
$f(x)$				−12	



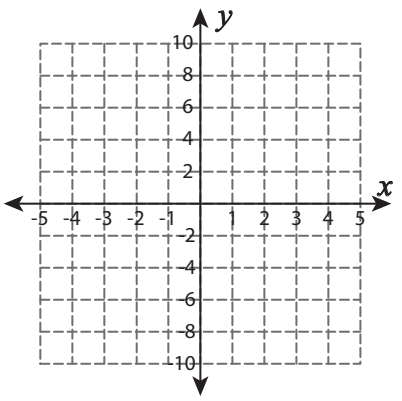
6) $f(x) = -2x + 5$

x			3	4	
$f(x)$	5	3			−5



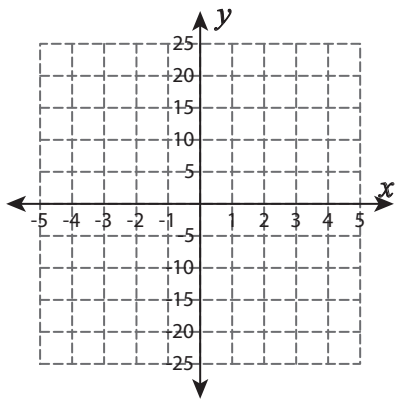
7) $f(x) = -4 + 2x$

x	−2			1	3
$f(x)$		−6	−4		



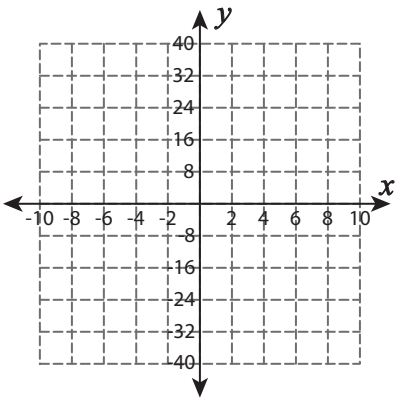
8) $f(x) = 5x$

x		−4		2	
$f(x)$	−25		0		15



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

x	−2		4		8
$f(x)$		−8		16	

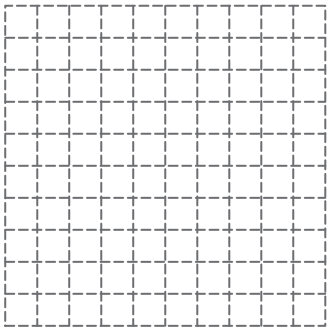


Function Table

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

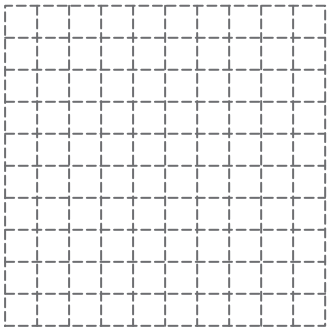
1) $f(x) = -3 + 3x$

x					
$f(x)$					



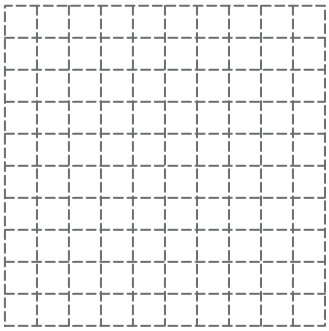
2) $f(x) = 9x$

x					
$f(x)$					



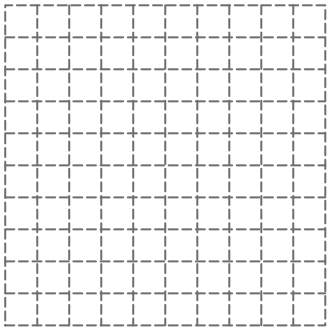
3) $f(x) = -4 - x$

x					
$f(x)$					



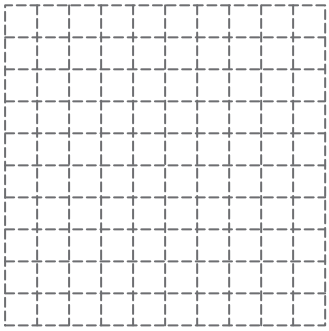
4) $f(x) = 6x - 3$

x					
$f(x)$					



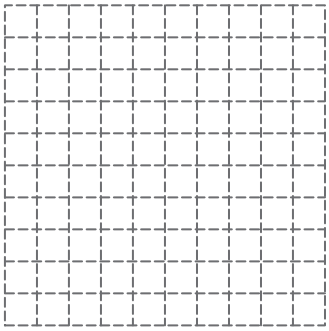
5) $f(x) = -x - 2$

x					
$f(x)$					



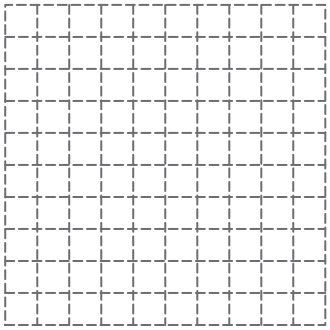
6) $f(x) = 2x + 1$

x					
$f(x)$					



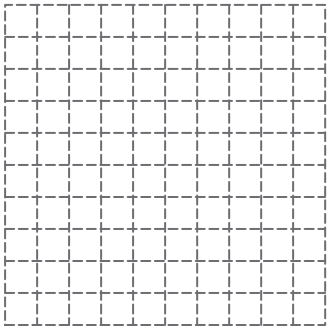
7) $f(x) = -5x$

x					
$f(x)$					



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

x					
$f(x)$					



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

x					
$f(x)$