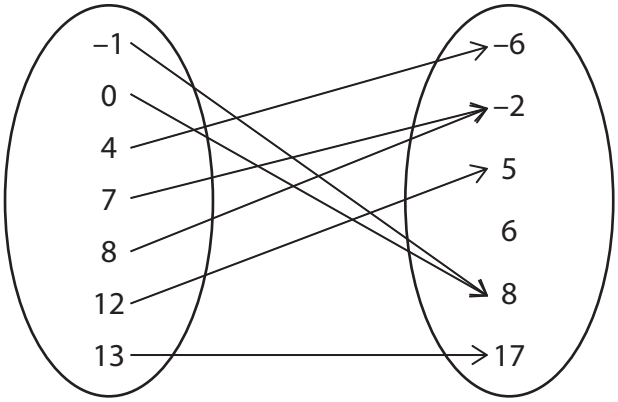
Name: _____

Functions - Mapping

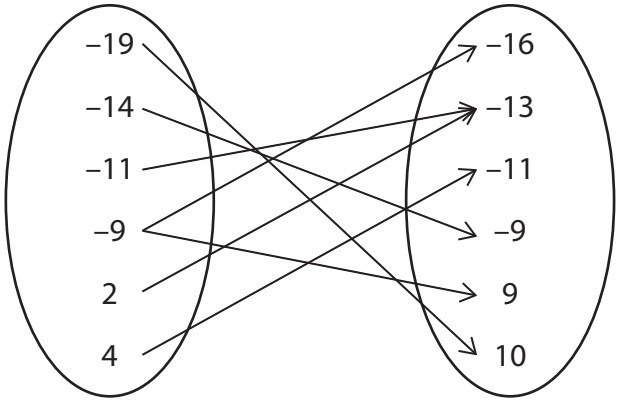
State whether each relation represents a function.

1)



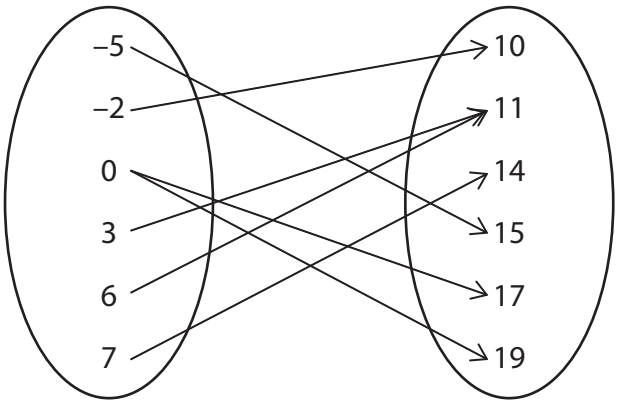
_____

2)



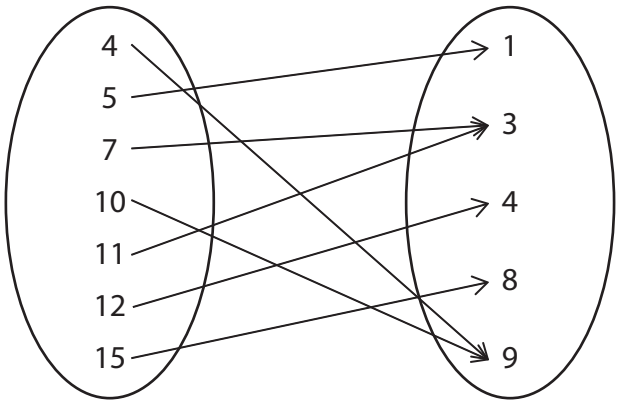
_____

3)



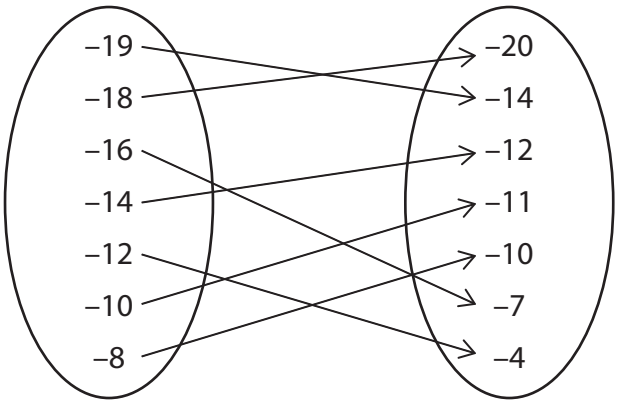
_____

4)



_____

5)



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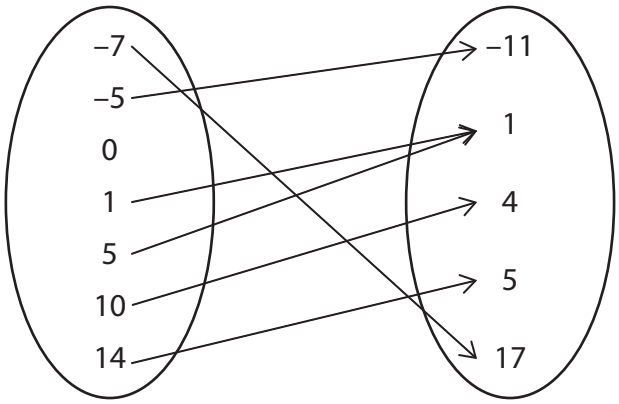
6)



_____

Name: _____

Functions - Table

Sheet 1

State whether each table of values represents a function.

1)

x	y
–12	2
–10	10
0	–2
5	–6
8	–11
15	–15

_____

2)

x	y
9	–18
–20	0
–6	1
–17	16
9	17
11	19

_____

3)

x	y
4	–20
1	–17
4	–14
16	5
10	0
–19	–16

_____

4)

x	y
–15	18
–11	18
–14	18
–9	18
–1	18
–5	18

_____

5)

x	y
2	15
3	12
6	–4
7	–1
18	–4
20	–8

_____

6)

x	y
–13	–3
–3	7
12	–13
17	8
–3	14
0	–19

_____

Name : _____

Domain and Range - Ordered pairs

A) Find the domain and range of each relation.

1) {(1, –1), (2, –3), (0, 5), (–1, 3), (4, –5), (–1, 5), (4, –4)}

Domain : _____

Range : _____

2) {(3, –2), (–8, –7), (0, 6), (–3, 4), (6, –3), (–1, 6), (5, –3)}

Domain : _____

Range : _____

3) {(10, –5), (–16, –8), (15, 9), (–4, 19), (6, –7)}

Domain : _____

Range : _____

4) {(5, –4), (7, –9), (0, 9), (–12 , 3), (9, 4), (–6, –3), (8, 2)}

Domain : _____

Range : _____

5) {(17, –9), (10, –5), (8, 3), (8, 4), (6, –14)}

Domain : _____

Range : _____

6) {(5, 5), (3, 8), (5, 4), (7, 5), (13, 8), (6, 2)}

Domain : _____

Range : _____

7) {(19, 12), (11, 5), (2, 2), (–4, 16), (6, 5), (–2, 1), (3, –3)}

Domain : _____

Range : _____

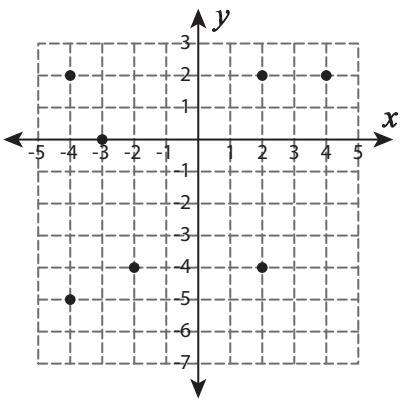
8) {(3, –2), (–3, –2), (1, 4), (–6, 5), (1, 3), (–20, 7)}

Domain : _____

Range : _____

B) Find the domain and range of ordered pairs represented on the graph.

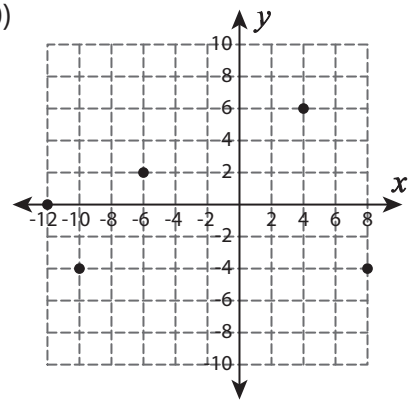
9)



Domain : _____

Range : _____

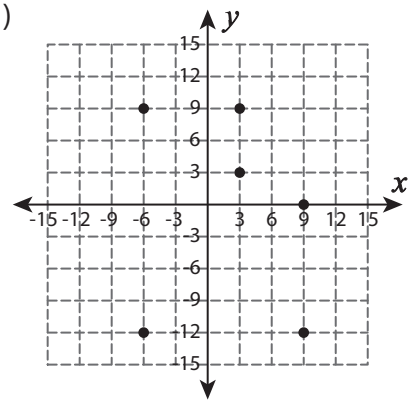
10)



Domain : _____

Range : _____

11)



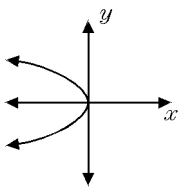
Domain : _____

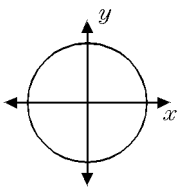
Range : _____

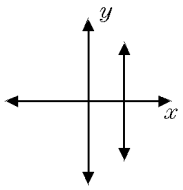
Vertical Line Test Practice **Algebra1Teachers.com**

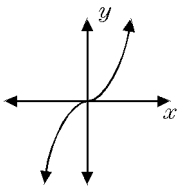
Name: _____ **Date:** _____

1. Which graph represents a function?

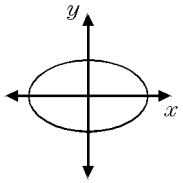
A. 

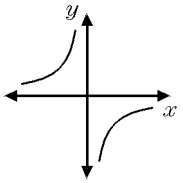
B. 

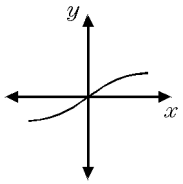
C. 

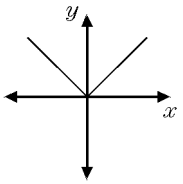
D. 

2. Which diagram is not the graph of a function?

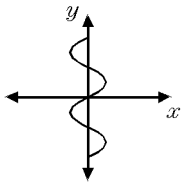
A. 

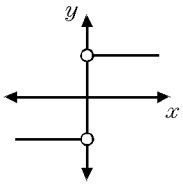
B. 

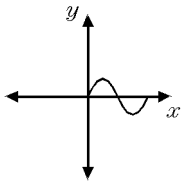
C. 

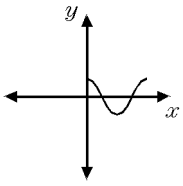
D. 

3. Which diagram shows a relation that is *not* a function?

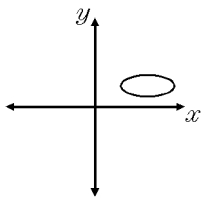
A. 

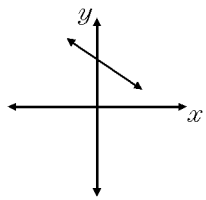
B. 

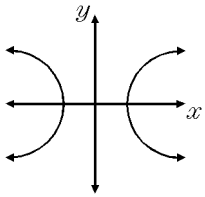
C. 

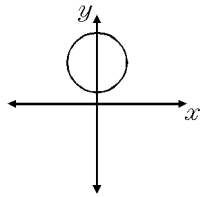
D. 

4. Which graph of a relation is also a function?

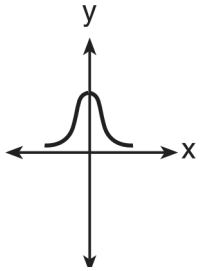
A. 

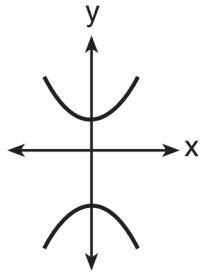
B. 

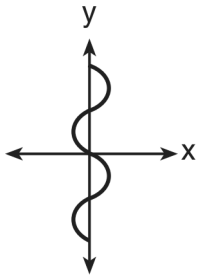
C. 

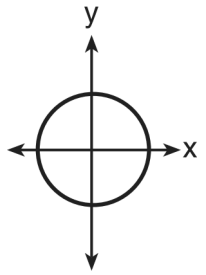
D. 

5. Which graph represents a function?

A. 

B. 

C. 

D. 

Name: _____

Evaluating Linear Functions

ES1

A) Evaluate each function at the specified value.

1) $f(x) = 7x - 5$; $x = 6$

2) $f(x) = 9x + 3$; $x = -10$

_____

_____

B) Evaluate each function.

1) $f(x) = -8x - 9$; find $f(-3)$

2) $f(x) = 4x$; find $f(-15)$

_____

_____

C) If $f(x) = 3(-2x + 7)$; find the following.

1) $f(-7)$ = _____

2) $f(13)$ = _____

3) $f(11)$ = _____

4) $f(-8)$ = _____

D) If $f(x) = -x - 11$; find the following.

1) $4f(-2) + 5f(1)$ = _____

2) $3f(5) \times f(2)$ = _____

3) $-5f(12) - 2f(-9)$ = _____

4) $\dfrac{f(9)}{f(-6)}$ = _____

E) What is the value of $f(4)$, if $f(x) = -4(x + 3) - 14$?

i) 42 ii) −24 iii) −42 iv) 8