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Functions and Inequalities

TOPIC C: Function Notation

NAME: _____
DATE: _____

1. Evaluate the following expressions given the functions below:

$g(x) = 3x + 1$

$f(x) = x^2 + 7$

$h(x) = \frac{12}{x}$

$j(x) = 2x + 9$

a. $g(10) =$

b. $f(3) =$

c. $h(-2) =$

d. $j(7) =$

e. $h(a)$

f. $g(b+c)$

b. Find x if $g(x) = 16$

d. Find x if $h(x) = -2$

f. Find x if $f(x) = 23$

2. Given $f(x) = 3 - 4x$. Fill in the table and then sketch a graph.

x	f(x)
-6	
-3	
0	
1	
-5	

3. Given $f(x) = \sqrt{x+1}$. Fill in the table and then sketch a graph.

x	f(x)
3	
0	
-10	
2	
6	

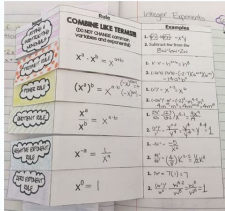
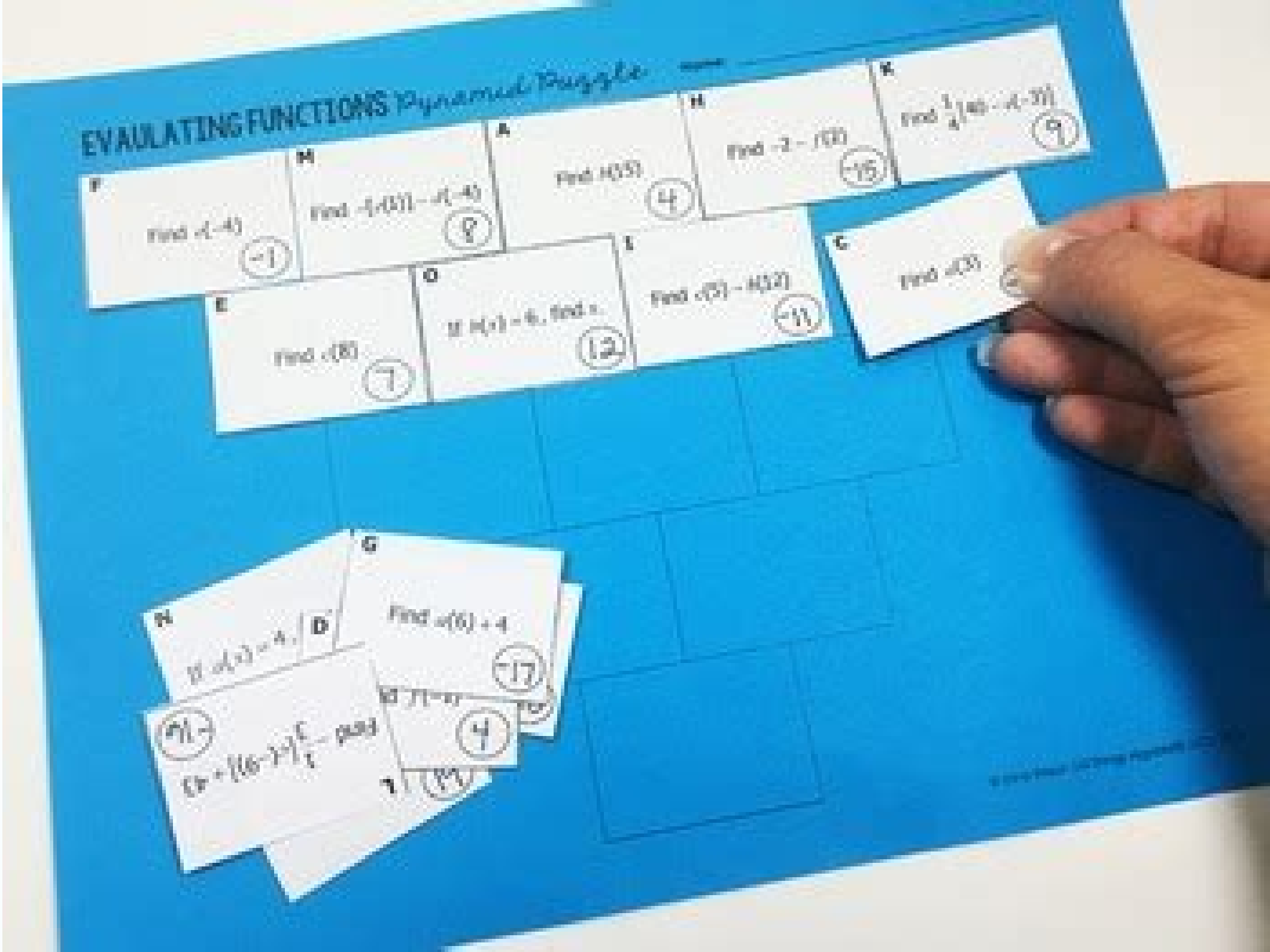
4. Translate the following statements into coordinate points, then plot them!

a. $f(-1) = 1$

b. $f(2) = 7$

c. $f(1) = -1$

d. $f(3) = 0$



Identifying Functions (Tables)

Name: _____

Based ONLY on the information presented, determine if the table describes a function (yes) or not (no). In the table x represents the input and y represents the output.

1)

X	Y
16	-4
64	-8
81	-9
81	9
100	10

2)

X	Y
-54	-9
-36	-6
-12	-2
48	8
60	10

3)

X	Y
-60	-10
-18	-3
-12	-2
30	5
54	9

4)

X	Y
16	-4
25	5
49	-7
49	7
81	-9

5)

X	Y
-7	3
-6	1
3	-6
8	2
8	8

6)

X	Y
-8	64
-3	9
3	9
6	36
9	81

7)

X	Y
-5	7
-1	7
2	-3
5	-1
6	-9

8)

X	Y
-3	-3
-2	-2
0	-1
0	10
1	1

9)

X	Y
-10	100
-9	81
-4	16
2	4
9	81

10)

X	Y
-4	-4
-3	-3
1	1
9	9
10	10

11)

X	Y
-9	-90
-8	-80
-1	-10
0	0
5	50

12)

X	Y
-9	-9
3	-9
6	7
7	-3
9	10

13)

X	Y
-10	100
-9	81
-6	36
-4	16
9	81

14)

X	Y
4	2
49	7
81	9
100	-10
100	10

15)

X	Y
-2	7
-1	9
7	-2
7	3
9	-1

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

Math

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1-10 [51] [57] [60] [75] [67] [60] [53] [47] [40] [33]
11-15 [27] [20] [33] [7] [9]

Find the functional values f(-2), and f(3) for the function:
f(x)= x² +1

This problem involves 2 steps because you are asked to find two values for the function. You must evaluate for f(-2) and f(3).

Step 1: f(x) = x² +1

find f(-2)

Original Problem

f(-2) = (-2)² +1

Substitute (-2) for x in the original function

f(-2) = 4+1

Evaluate!

f(-2) = 5

This is your answer to part 1.

Step 2: f(x) = x² +1

find f(3)

Original Problem

f(3) = 3² +1

Substitute 3 for x in the original function.

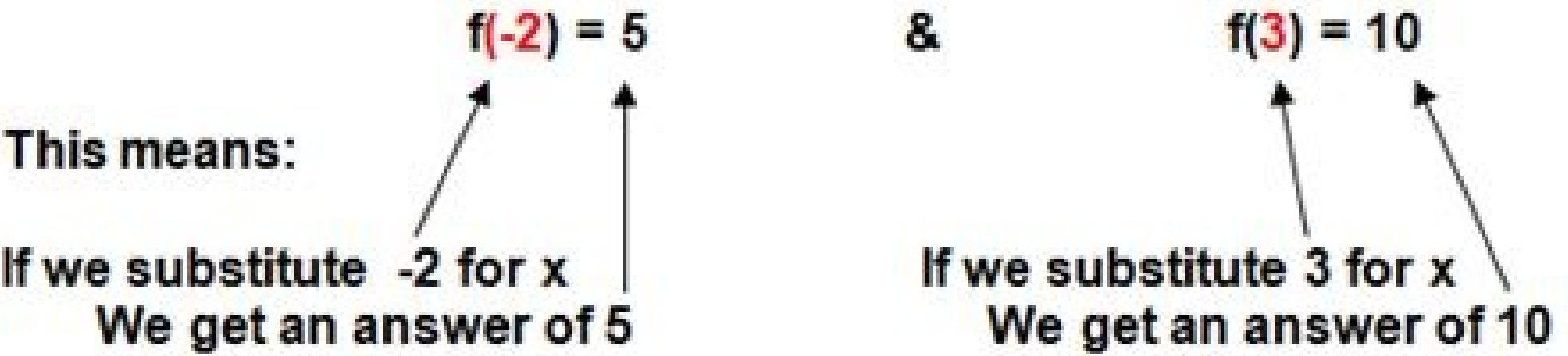
f(3) = 9+1

Evaluate!

f(3) = 10

This is your answer to part 2.

Our final solution to the function, f(x)= x² +1 is:



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