$\qquad$
For \#1 - 12, find the domain and range of each function or relation.
1)

2)

3)

4)

7)

8)

9)

10)

11)

12)


### 5.1 Reflection

A) What are things you are understanding well about this lesson?
B) What is an area that you are needing clarification on from this lesson?
C) What are the behaviors that can best support your learning for this lesson?
D) What is one thing from the last week that you are proud of?
E) What is your goal for the Big Quiz on this unit?

1) Graph: $y=\frac{1}{3}|x-2|-6 \quad$ 2) from \#1

2) Graph: $y=2|x+4|+1$

## Vertex:

Domain:
Range:
6) from \#5


Vertex:
Domain:
Range:
9) Graph: $y=|x+3|-6$
10) from \#9

13) Graph: $y=-2|x-3|-1$
14) from \#13

3) Graph: $y=-|x|+3$

7) Graph: $y=-3|x-5|$
8) from \#7


Vertex:
Domain:
Range:
11) Graph: $y=-\frac{2}{3}|x|+5 \quad$ 12) from \#11


Vertex:
Domain:
Range:
15) Graph: $y=\frac{1}{3}|x+2|-4$ 16) from \#15


Transformations from $y=|x|$ :

### 5.2 Reflection

A) What level of frustration did you experience while doing this assignment?

| 0 | 1 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| No frustration | A small amount of frustration | Frustrated half the time | Frustrated most the time | Frustrated all of the time |

B) Use the scale below to determine how confident you are on each topic in the table below.

| 0 | 1 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| Not confident | Slightly confident | Confident half the time | Confident most the time | Confident all of the time |
| Portion |  |  |  | Confidence Scale Value |
| Graphing an absolute value function |  |  |  |  |
| Finding the coordinates of the vertex |  |  |  |  |
| Writing the domain |  |  |  |  |
| Writing the range |  |  |  |  |
| Writing the transformations |  |  |  |  |

C) Are you proud of your effort on this assignment? Why or why not?
D) List a goal for your next assignment.

For \#1-12: Solve for $x$ in each equation below, if possible.

1) $|x|=5$
2) $|2 x-4|=8$
3) $5|x-3|=60$
4) $-3|x|+8=-7$
5) $-5|x|+4=-6$
6) $\frac{1}{4}|x-5|=11$
7) $-\frac{1}{5}|x|+3=-4$
8) $-4|x-3|+1=9$
9) $3|x|+16=7$
10) $2|6 x-5|-6=8$

### 5.3 Reflection

A) How much do you agree with this statement? I showed persistence on this assignment, because I tried the problems that were hard for me, and I gave my best effort even when it was challenging.

1) strongly disagree
2) disagree
3) agree
4) strongly agree
B) How much do you agree with this statement? When I felt frustrated on this assignment, I was able to calm myself down and then focus on trying the problems.
5) strongly disagree
6) disagree
7) agree
8) strongly agree
C) How much do you agree with this statement? When I needed help on this assignment, I used appropriate resources (such as my notes, watching a video, getting help from others) to try to understand the material.
9) strongly disagree
10) disagree
11) agree
12) strongly agree
D) Are you proud of your effort on this assignment? Why or why not?
$\qquad$
For \#1-10: Graph each linear inequality.
13) $y>-\frac{2}{5} x+3$

14) $y \leq 2 x-1$
15) $y \geq \frac{1}{3} x-4$


16) $y<\frac{1}{4} x-3$

17) $y>4 x-3$

18) $y \leq \frac{1}{5} x$

19) $x>3$

20) $y<-1$

21) $x \geq-4$

22) $y \leq 3$


For \#11-14: Write the explicit formula for each arithmetic sequence below.
11) $15,13,11,9,7, \ldots$
12) $-1,7,15,23,31, \ldots$
13) $30,20,10,0,-10$
14) $5,6,7,8,9, \ldots$

### 5.4 Reflection

Part A) How well are you understanding Ch 5? Consider each topic, and then measure your understanding between 0 (not understanding at all) and 5 (am able to help other students on this topic.)

| Topic | Ranking (0 to 5) |
| :--- | :--- |
| Finding domain and range |  |
| Graphing absolute value functions |  |
| Solving absolute value equations |  |
| Graphing linear inequalities |  |
| Writing explicit formulas for arithmetic sequences |  |

Part B) Evaluate your effort on the 5.4 lesson. Include your effort and focus during notes, as well as during the HW time. Share your thoughts below.

Part C) What is your goal for your semester grade in this class?
$\qquad$

For \# 1-4, sketch each function and identify the requested information.

1) $y=-\frac{1}{3}|x+1|+4$
2) $y=\frac{2}{3}|x-2|$


| Vertex: |
| :--- |
| Domain: |
| Range: |


3) $y=\frac{1}{2}|x|-3$

| Vertex: |
| :--- |
| Domain: |
| Range: |


4) $y=-3|x-2|+5$

Vertex:
Domain:
Range:


For \#5-6: Write the transformations from the parent function $y=|x|$ for the given function.
5) The graph from \#3.
6) The graph from \#4.

For \#7-9, write the explicit form for each arithmetic sequence.
7) $24,19,14,9, \ldots$
8) $7,11,15,19, \ldots$
9) $-7,-5,-3,-1,1, \ldots$

For \#10-12, write the domain and range for the graph shown.
10)


12)


Ch 5 Review Wk continued on the next page...

## Ch 5 Review Worksheet, continued...

For \#13-16, solve for the variable.
13) $|x|+4=18$
15) $-1=-2|x-3|+9$

For \#14-17: Graph each linear inequality.
14) $y \geq-\frac{2}{3} x+4$

16) $y>-2$

15) $y<3 x-2$

17) $x \leq-1$


