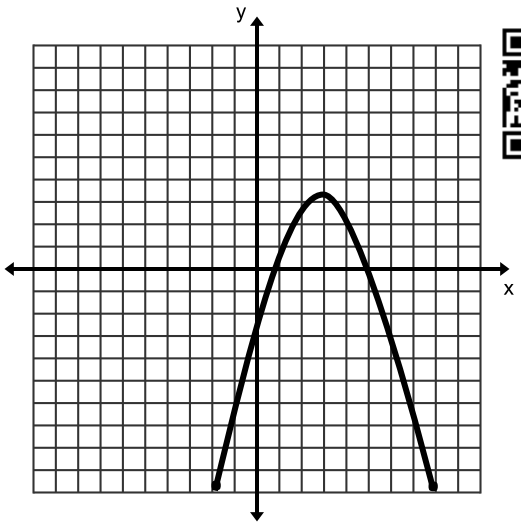
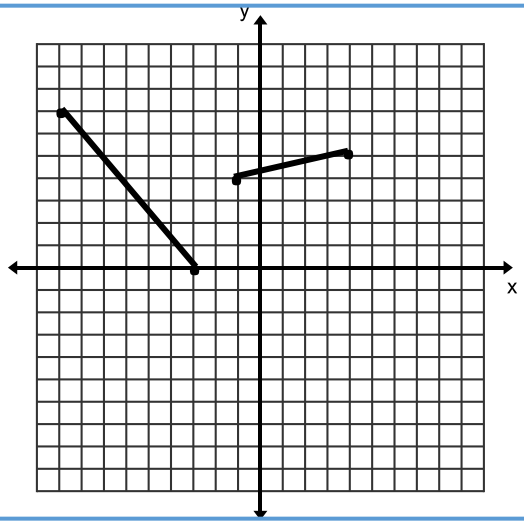
Name: _____ Date: _____ Period: _____ Score: _____

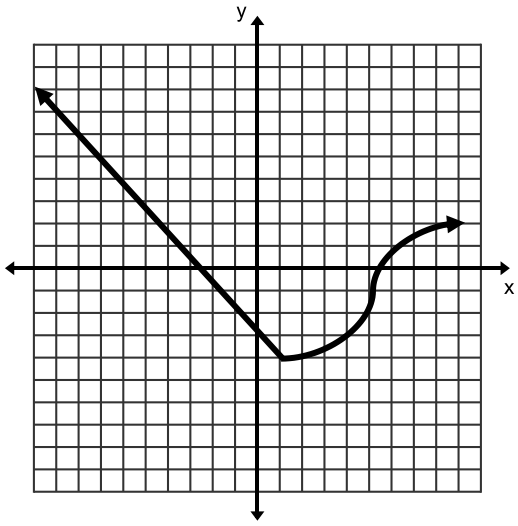
*Sec 1H Unit 5 Day 3 – Characteristics of Functions Assignment*




1. Domain:
2. Range:
3. Values of x when y is decreasing:
4. Values of x when y is increasing:
5. Minimum Point(s):
6. Maximum Point(s):



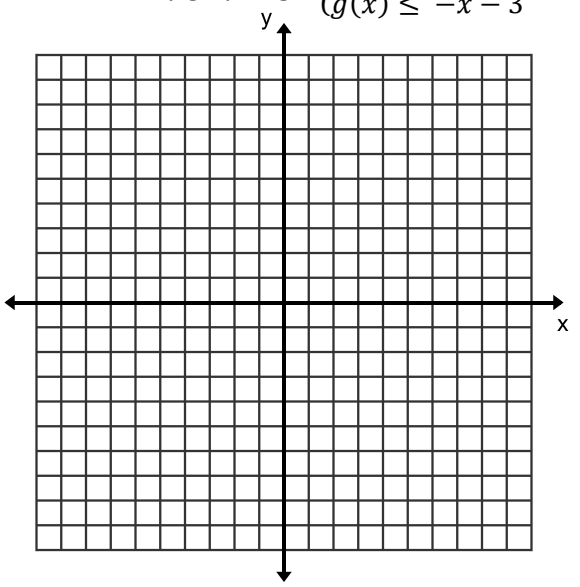

7. Domain:
8. Range:
9. Values of x when y is decreasing:
10. Values of x when y is increasing:
11. Minimum Point(s):
12. Maximum Point(s):



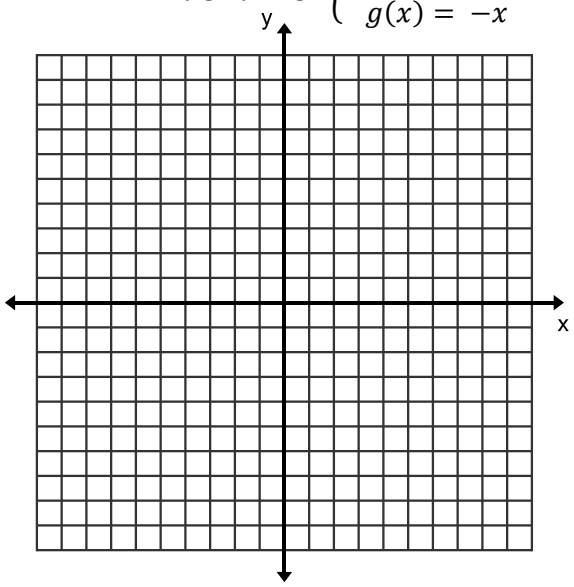

13. Domain:
14. Range:
15. Values of x when y is decreasing:
16. Values of x when y is increasing:
17. Minimum Point(s):
18. Maximum Point(s):

Whether you think you can or think you can't - you are right.

19. Solve by graphing: $\begin{cases} f(x) > x \\ g(x) \leq -x - 3 \end{cases}$




20. Solve by graphing: $\begin{cases} f(x) = \frac{2}{3}x - 5 \\ g(x) = -x \end{cases}$




**Write equations for the tables.**

21.

| X | F(x) |
|---|---|
| 0 | -13 |
| 2 | -5 |
| 3 | -1 |

a) Recursive:

b) Explicit:

22.

| X | F(x) |
|---|---|
| 2 | 5 |
| 7 | 15,625 |
| 9 | 390,625 |

a) Recursive:

b) Explicit:

23.

| X | F(x) |
|---|---|
| 10 | 41 |
| 12 | 47 |
| 13 | 50 |

a) Recursive:

b) Explicit: