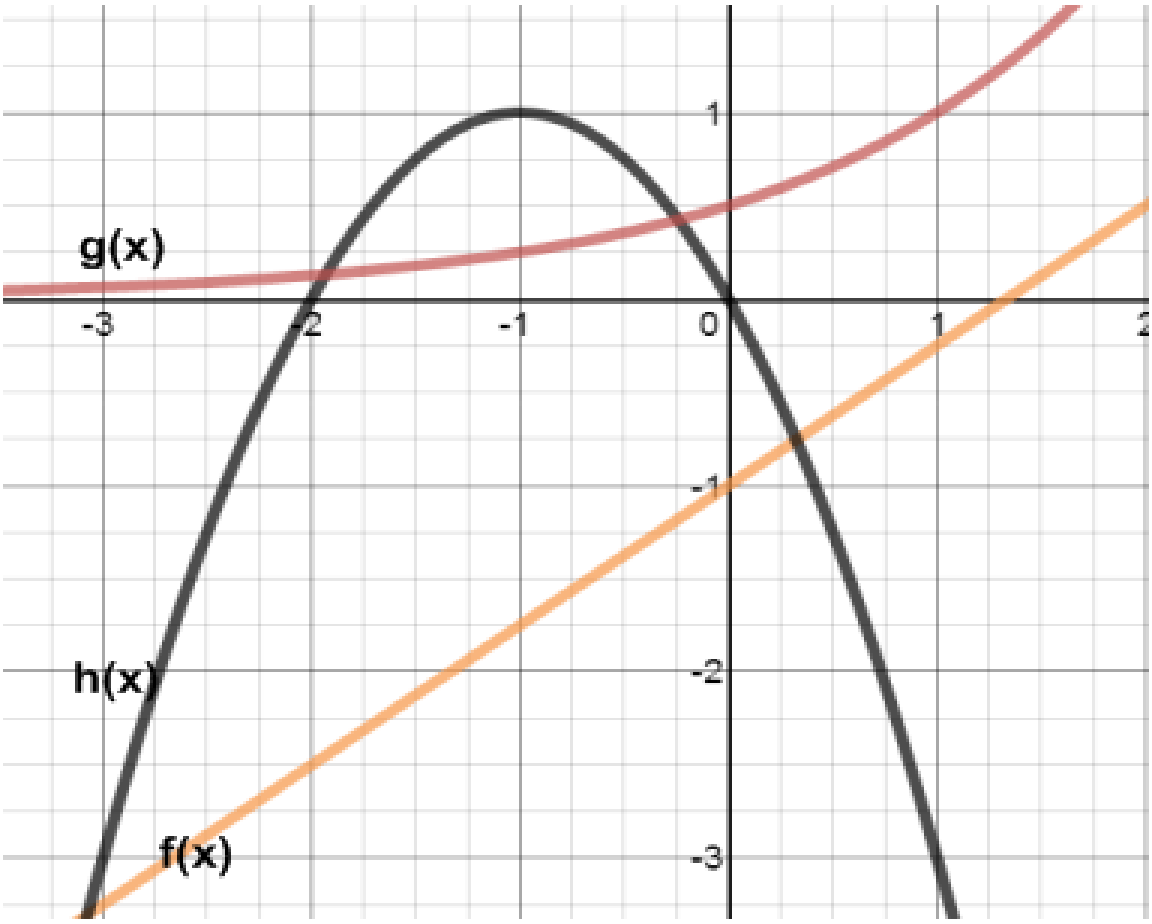
# COMPARING FUNCTIONS PROBLEM #1



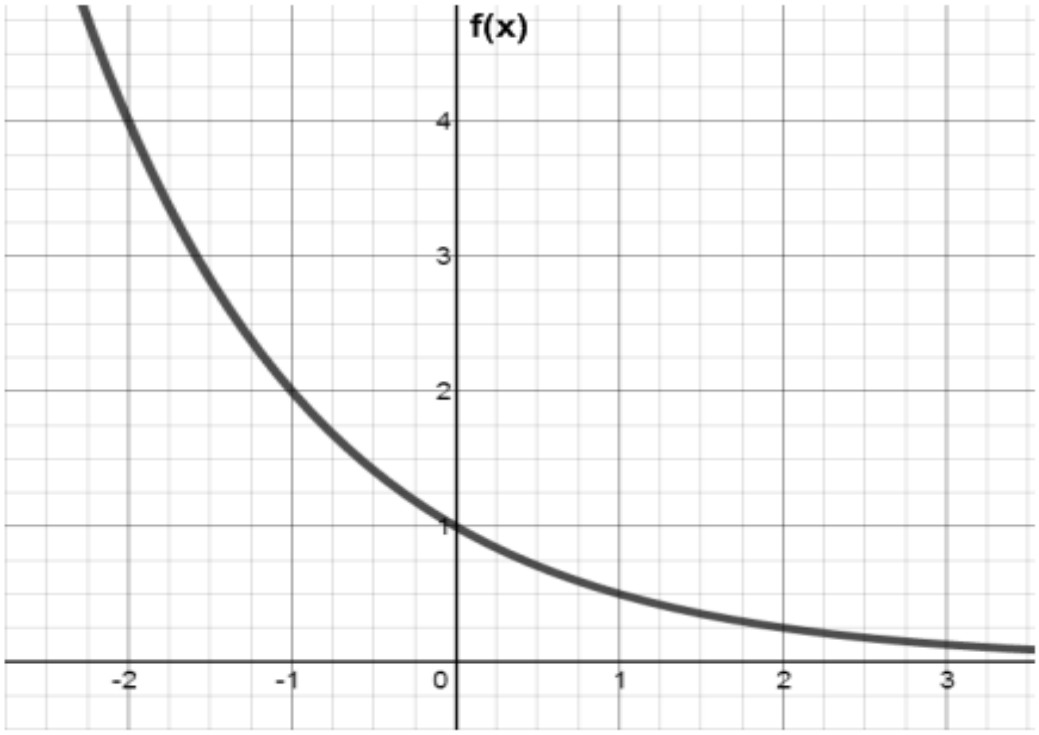

a. Compare the y-intercepts of the functions.

b. Compare the rate of change of the functions over the interval $-1 \leq x \leq 0$.

c. Compare the rate of change of the functions over the interval $0 \leq x \leq 1$.

# COMPARING FUNCTIONS PROBLEM #2

| $x$ | $-2$ | $0$ | $2$ | $4$ |
|---|---|---|---|---|
| $h(x)$ | $1$ | $5$ | $9$ | $13$ |




a. Compare the y – intercepts of the functions.

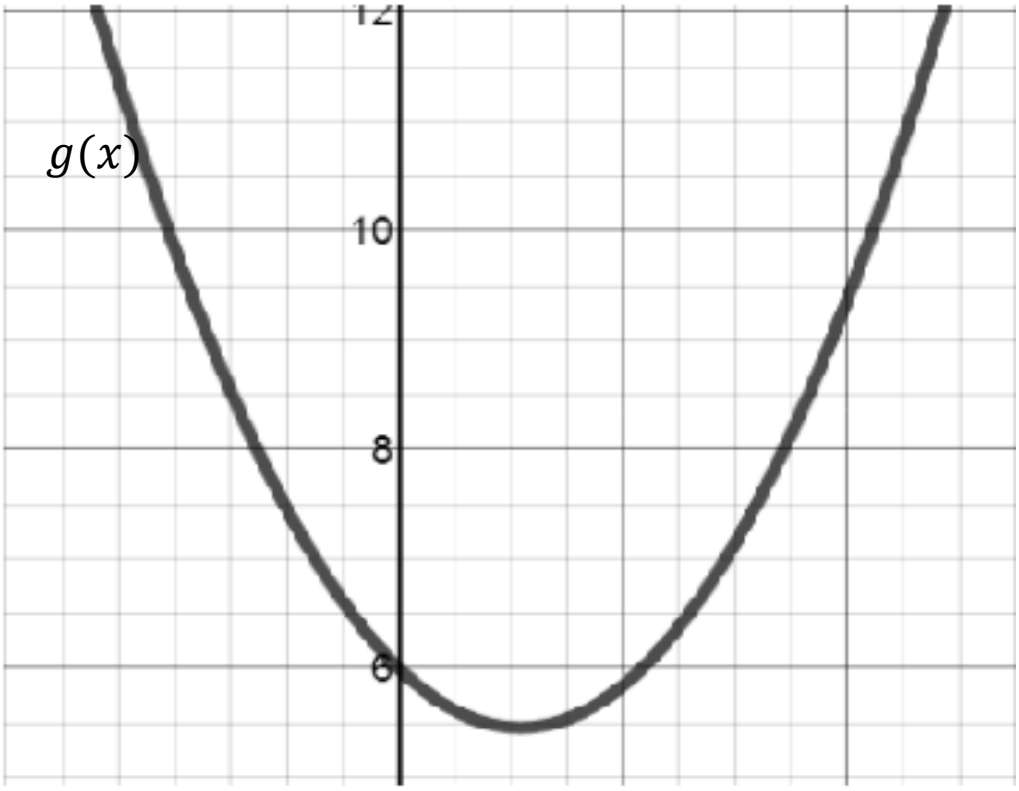
b. Compare the rate of change over the interval $-2 \leq x \leq 0$.

c. Compare the rate of change over the interval $0 \leq x \leq 2$.

# COMPARING FUNCTIONS PROBLEM #3

Answer the questions about the table of values and graph below.

$$f(x) = -\frac{2}{3}x + 4$$



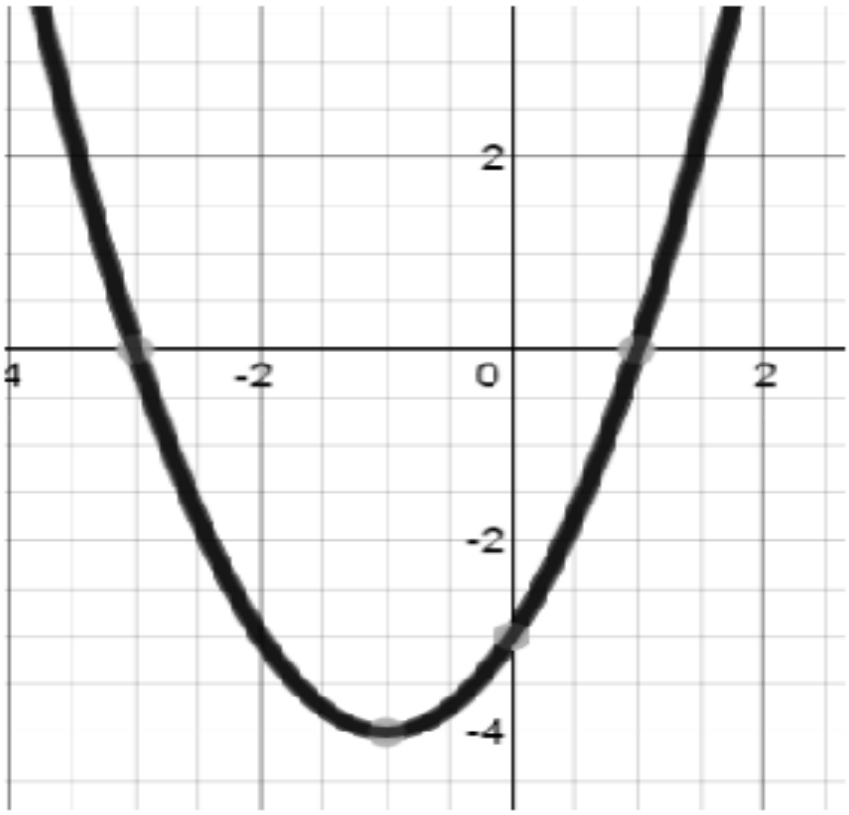

a. Compare the y-intercepts of the functions.

b. Compare the rate of change over the interval $-1 \leq x \leq 0$.

c. What is the domain and range of each function?

# COMPARING FUNCTIONS PROBLEM #4

| $x$ | $-2$ | $0$ | $2$ | $4$ |
|---|---|---|---|---|
| $g(x)$ | $18$ | $8$ | $-2$ | $-12$ |




a. Compare the y-intercepts of the functions.

b. Compare the rate of change of the functions over the interval $-2 \leq x \leq 2$.

c. What is the domain and range of each function?

# COMPARING FUNCTIONS PROBLEM #5

$$g(x) = -4x + 7$$

| $x$ | $-2$ | $0$ | $2$ | $4$ |
|---|---|---|---|---|
| $h(x)$ | $1$ | $3$ | $9$ | $27$ |

a. Compare the y –intercepts of the functions.

b. Compare the rate of change over the interval $-2 \leq x \leq 0$.

c. Compare the rate of change over the interval $0 \leq x \leq 2$.

# COMPARING FUNCTIONS PROBLEM #6


a. Compare the y-intercepts of the functions.

b. Compare the rate of change of the functions over the interval $-1 \leq x \leq 0$.

c. Compare the rate of change of the functions over the interval $1 \leq x \leq 2$.