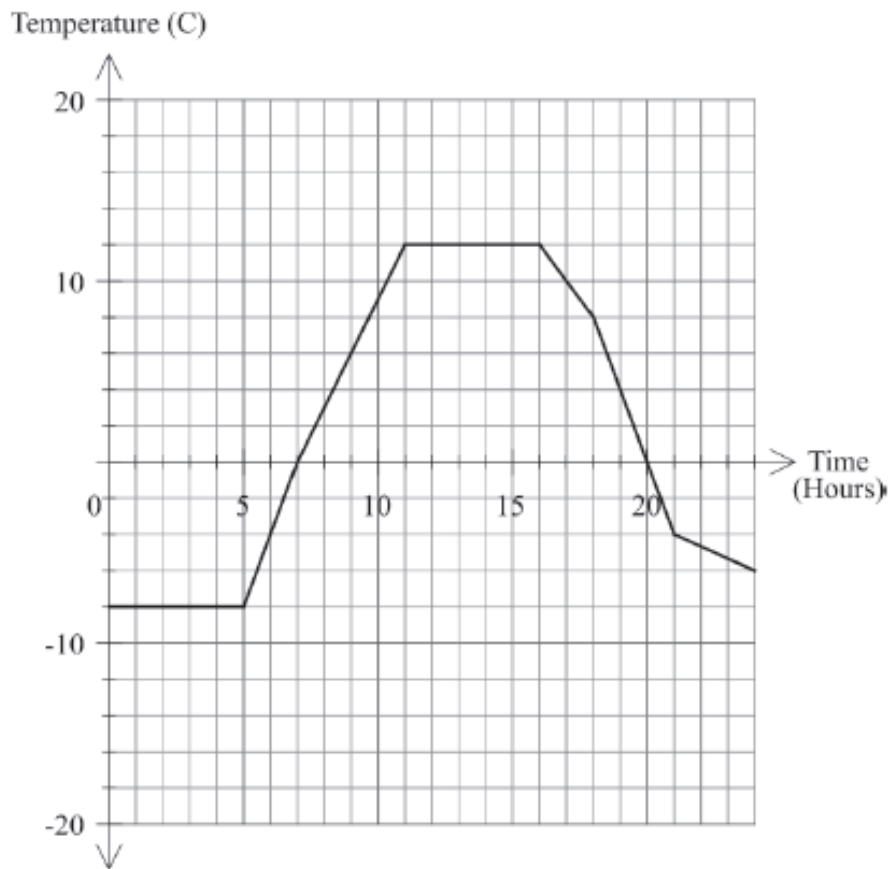


Practice on Function Notation

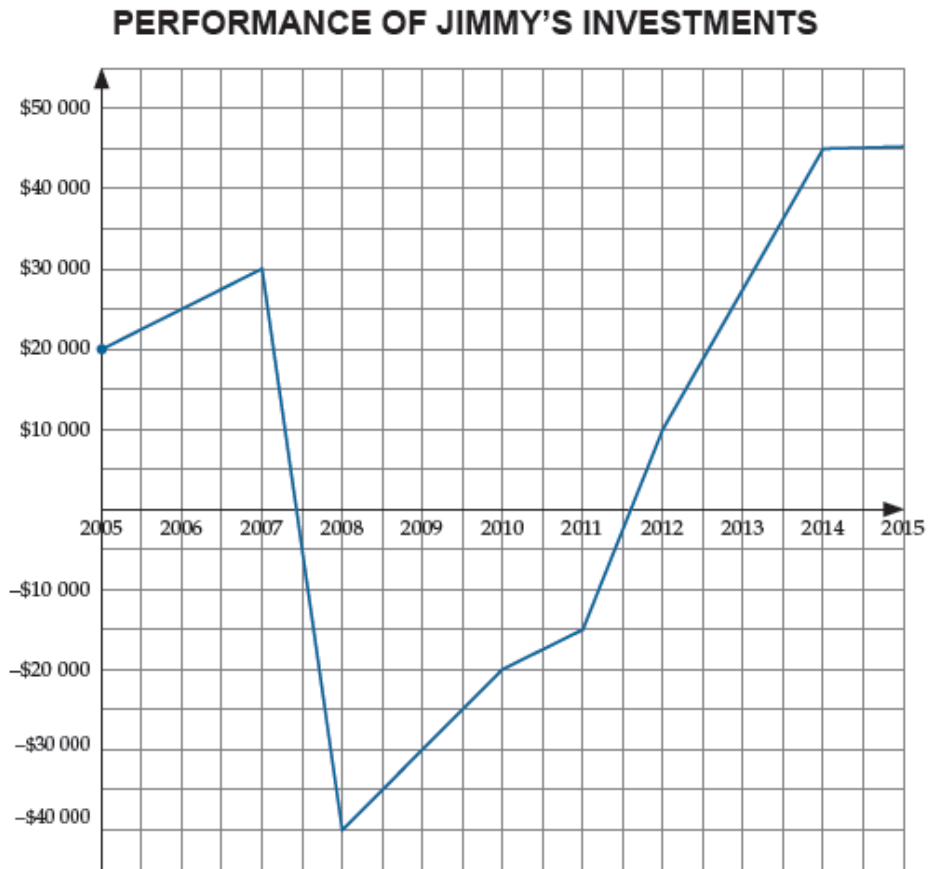
Name: _____

1. Given function $T(x)$ graphed below:



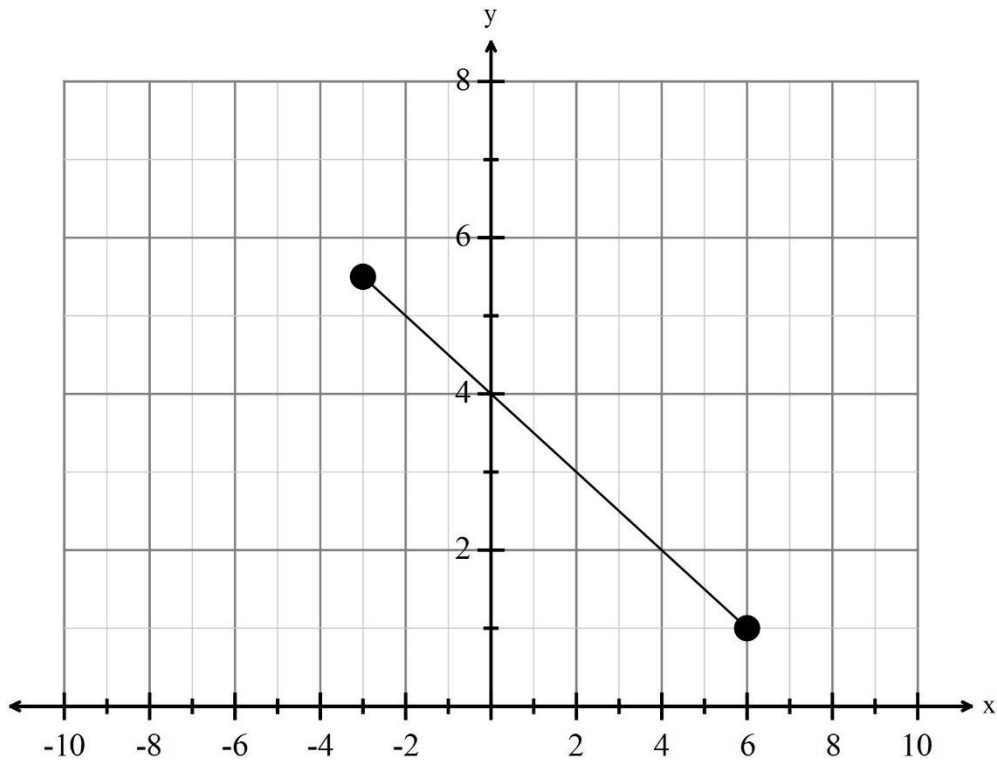
- Evaluate $T(15)$
- Evaluate $T(9)$
- When is this function constant?
- When is $T(x) = 0$?
- When is $T(x) = -8$?
- When is $T(x) = -4$?
- When is $T(x) = 10$?

2. Given function $I(x)$ graphed below:



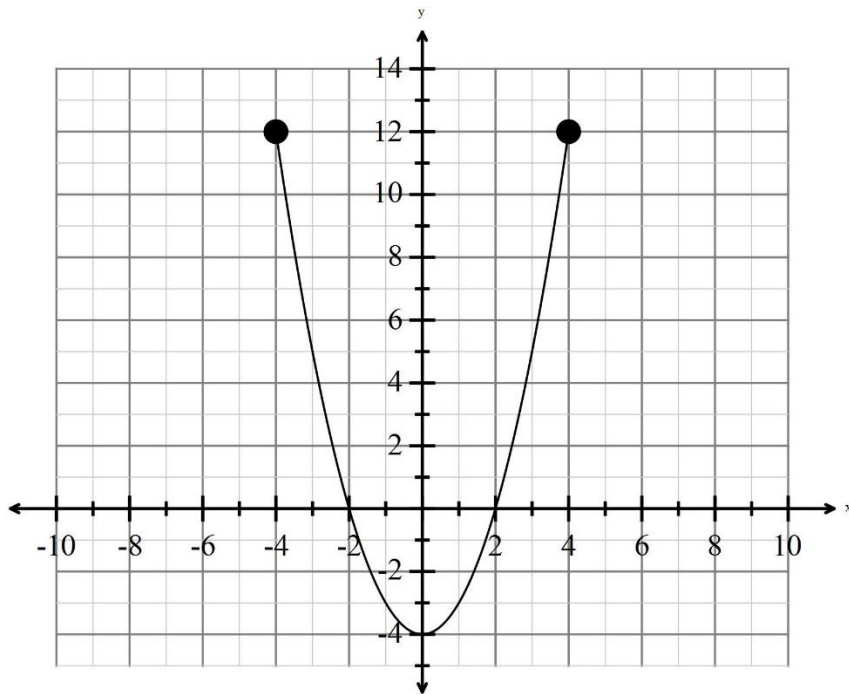
- a) Evaluate $I(2005)$
- b) Evaluate $I(2012)$
- c) When is this function constant?
- d) When is $I(x) = -40\,000$?
- e) When is $I(x) = -15\,000$?
- f) When is $I(x) = 20\,000$?
- g) When is $I(x) = 30\,000$?

3. Given function $f(x)$ graphed below:



- a) Evaluate $f(4)$
- b) Evaluate $f(9)$
- c) Evaluate $f(0)$
- d) When is $f(x) = 0$?
- e) When is $f(x) = 4$?
- f) When is $f(x) = -3$?
- g) When is $f(x) = 6$?

4. Given function $h(x)$ graphed below:



a) Evaluate $h(4)$

b) Evaluate $h(-2)$

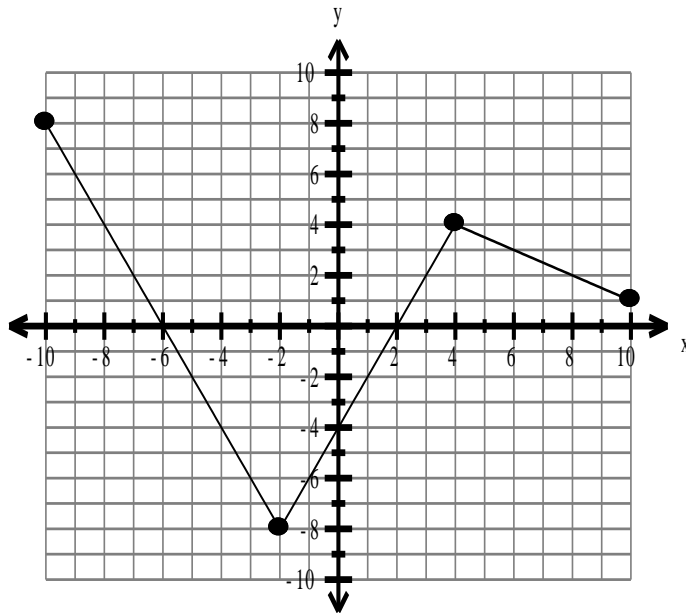
c) When is this function constant?

d) When is $h(x) = 0$?

e) When is $h(x) = -4$?

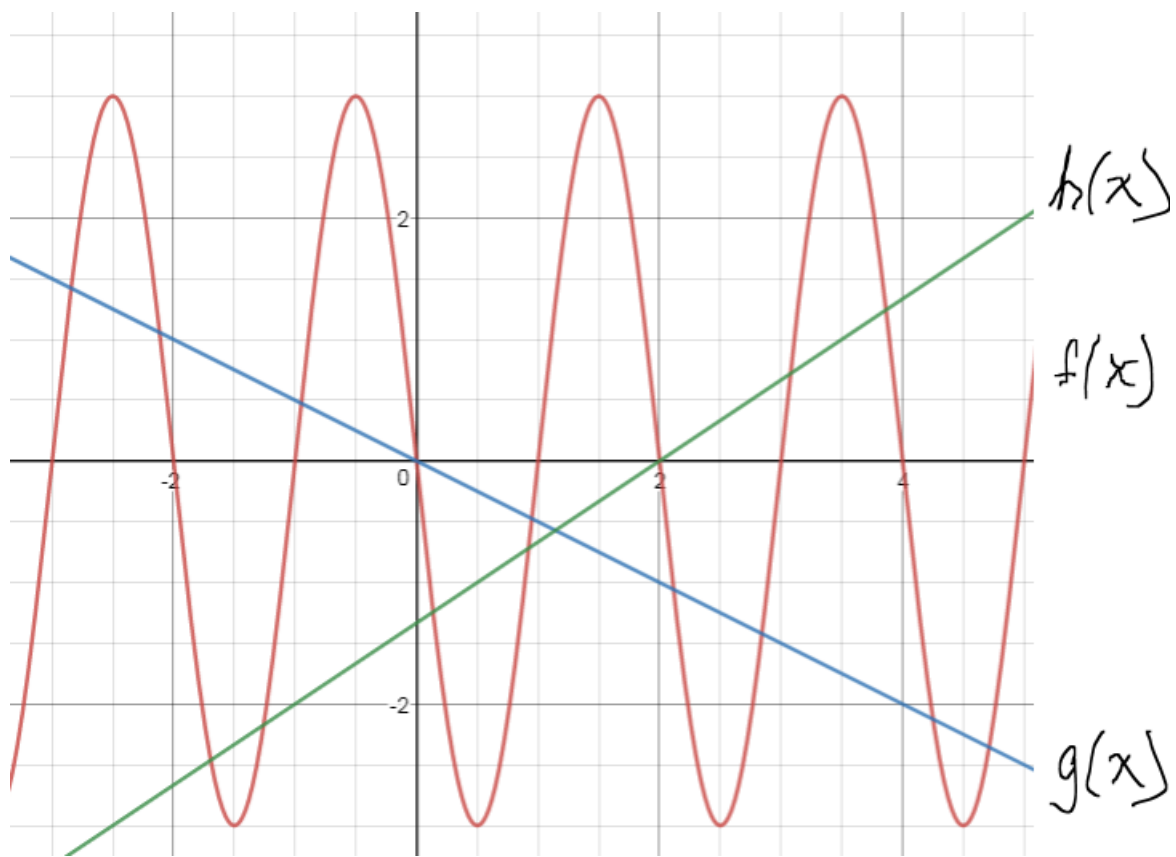
f) When is $h(x) = 12$?

5.



- a) Evaluate $f(4)$
- b) Evaluate $f(-2)$
- c) When is $f(x) = 0$?
- d) What are the zeroes of this function?
- e) When is $f(x) = -4$?
- f) What is $f(0)$?
- g) What is the y-intercept of this function?

6. Given the functions below:



a) Determine:

$$h(2) =$$

$$f(0) =$$

$$g(-2) =$$

b) What is x when...

$$h(x) = -2$$

$$f(x) = 3$$

$$g(x) = 1$$