

M117 SECTION 8.2 REVIEWING FUNCTION NOTATION

EXAMPLE 1

Use the graph of the given function $f(x)$ to find the following:

$$f(0) = \underline{\hspace{2cm}}$$

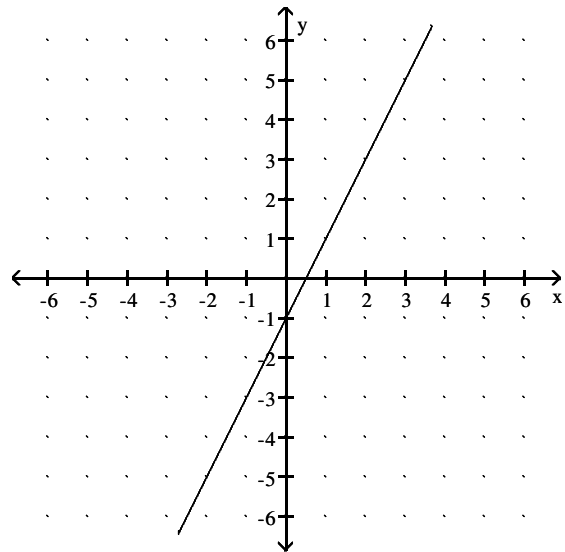
$$f(2) = \underline{\hspace{2cm}}$$

$$f(-2) = \underline{\hspace{2cm}}$$

$$f(3) = \underline{\hspace{2cm}}$$

Use the graph of the given function $f(x)$ to find x such that:

$$f(x) = 3$$



EXAMPLE 2

Use the graph of the given function $f(x)$ to find the following:

$$f(-4) = \underline{\hspace{2cm}}$$

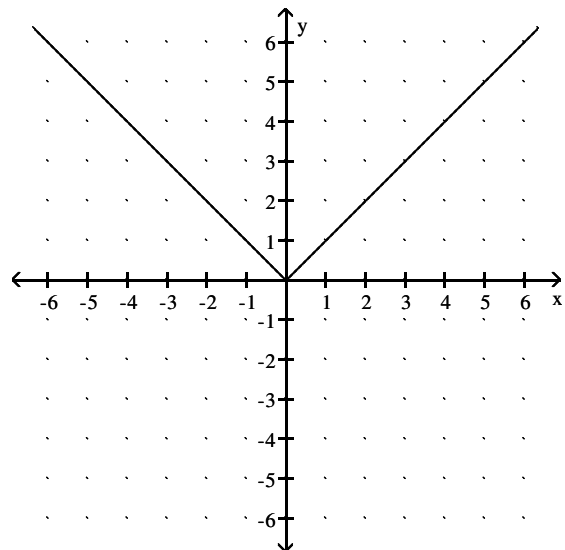
$$f(0) = \underline{\hspace{2cm}}$$

$$f(5) = \underline{\hspace{2cm}}$$

Use the graph of the given function $f(x)$ to find all values of x such that:

$$f(x) = 3$$

$$f(x) = 6$$



EXAMPLE 3

Use the graph of the given function $f(x)$ to find the following:

$$f(1) = \underline{\hspace{2cm}}$$

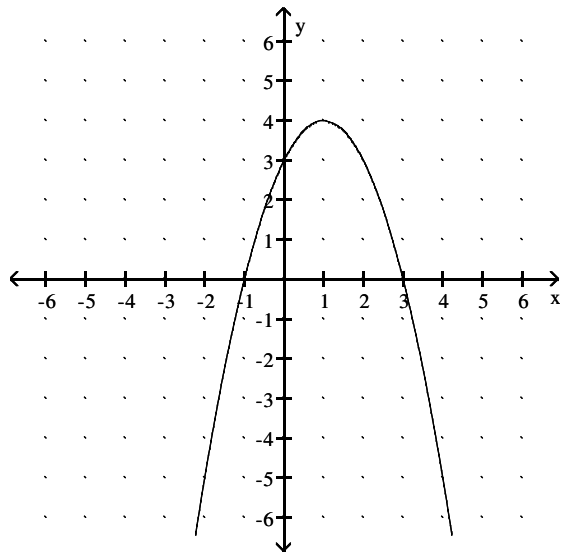
$$f(3) = \underline{\hspace{2cm}}$$

$$f(-2) = \underline{\hspace{2cm}}$$

Use the graph of the given function $f(x)$ to find all values of x such that:

$$f(x) = 3$$

$$f(x) = 6$$



Suppose the sales of a particular brand of appliance are modeled by the linear function $S(x) = 90x + 3300$, where $S(x)$ represents the number of sales in year x , with $x = 0$ corresponding to 1982. Find the number of sales in 1987.

It has been determined that the number of fish $f(t)$ that can be caught in t minutes in a certain pond using a certain bait is $f(t) = .24t + 1$, for $t > 10$. Find the number of fish that can be caught if you fish for 36 minutes. Round your answer to the nearest integer.