

LESSON**1-7****Practice B****Function Notation**

For each function, evaluate $f(-1)$, $f(0)$, $f\left(\frac{3}{2}\right)$.

1. $g(x) = -4x + 2$

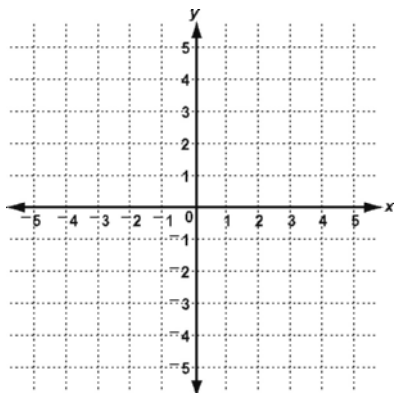
2. $h(x) = x^2 - 3$

3. $f(x) = 3x^2 + x$

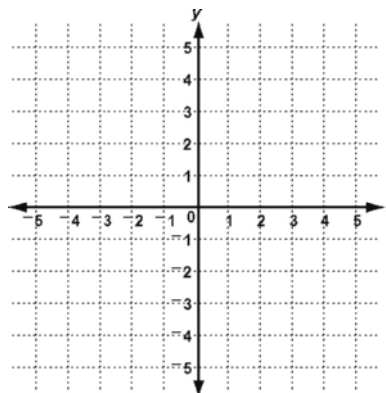
4. $f(x) = \frac{x}{2} - 1$

Graph each function. Then evaluate $f(-2)$ and $f(0)$.

5. $f(x) = x^2 - 4$



6. $f(x) = -\frac{3}{2}x + 1$

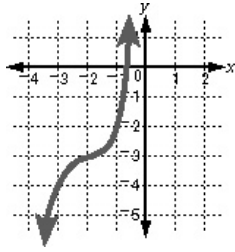


Solve.

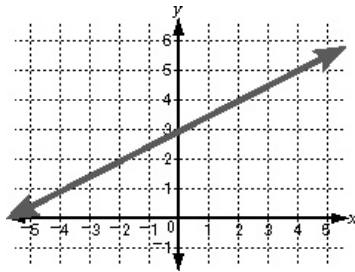
7. On one day the value of \$1.00 U.S. was equivalent to 0.77 euro. On the same day \$1.00 U.S. was equivalent to \$1.24 Canadian. Write a function to represent the value of Canadian dollars in euros. What is the value of the function for an input of 5 rounded to the nearest cent, and what does it represent?

8. PC Haven sells computers at a 15% discount on the original price plus a \$200 rebate. Write a function to represent the final price of a computer at PC Haven. What is the value of the function for an input of 2500, and what does it represent?

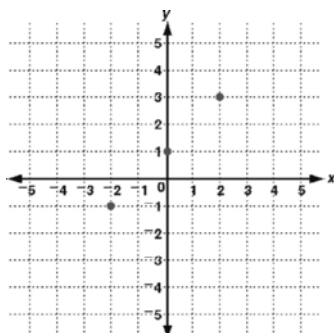
3. $-2; -3; -4$



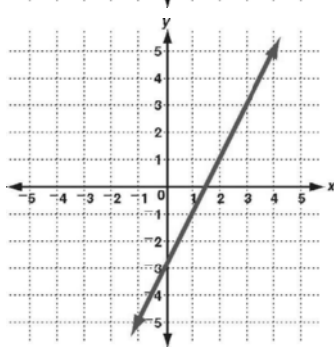
4. $1; 3; 4$



5.

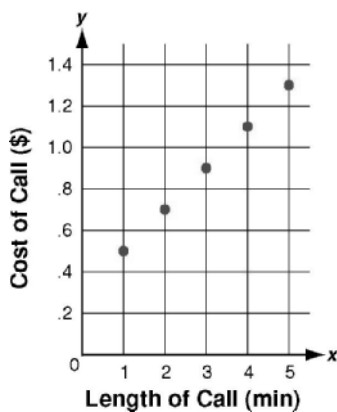


6.



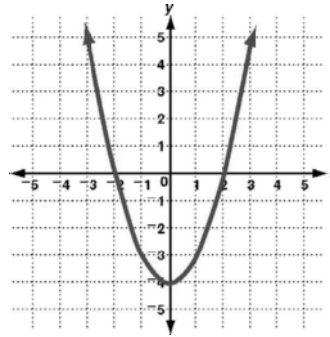
7. \$2.30

Calling Card Costs

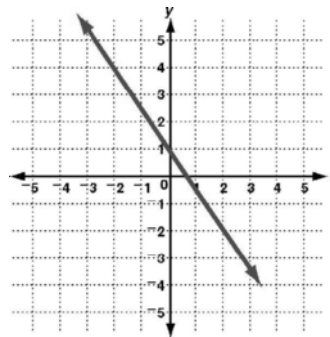


Practice B

1. $6, 2, -4$
2. $-2, -3, -\frac{3}{4}$
3. $2, 0, 8\frac{1}{4}$
4. $-\frac{3}{4}, -1, -\frac{1}{4}$
5. $0, -4$



6. $4, 1$



7. $f(c) = \frac{0.77c}{1.24}; f(5) = 3.10$; the value of \$5 Canadian is equivalent to 3.10 euros.
8. $f(p) = 0.85p - 200$; $f(2500) = 1925$; \$1925 is the final, discounted price of a computer with an original price of \$2500.

Practice C

1. $8, 5\frac{7}{8}, 5.6, 5\frac{1}{4}$
2. $-54, -\frac{11}{9}, -9, 54$
3. $-2\frac{3}{4}, -2, -\frac{1}{2}, -2\frac{3}{4}$
4. $-1, \frac{1}{4}, 1\frac{1}{4}, 2$
5. Possible answer: The domain is a positive whole number, x , representing the number of people at a party; the range is a positive whole number, $\frac{3x}{8}$, representing the number of pizzas needed.
6. Possible answer: The domain is a positive rational number, m , representing