Chapter P   Preparing for Calculus

P.1   Functions and Their Graphs

Concepts and Vocabulary

1. If f is a function defined by $y = f(x)$, then x is called the $\boxed{\text{independent}}$ variable and y is the $\boxed{\text{dependent}}$ variable.

3. $\boxed{\text{False}}$. If no domain is specified for a function f, then the domain of f is taken to be the largest set of real numbers for which the value $f(x)$ is defined and is a real number.

5. $\boxed{\text{False}}$. A function can have at most one y-intercept; otherwise, there would be more than one y-value corresponding to $x = 0$.

7. If the point $(5, -3)$ is on the graph of f, then $f(\boxed{5}) = \boxed{-3}$.

9. A function f is $\boxed{\text{(a) increasing}}$ on an interval I if, for any choice of x_1 and x_2 in I, with $x_1 < x_2$, then $f(x_1) < f(x_2)$.

11. $\boxed{\text{False}}$. Even functions have graphs that are symmetric with respect to the y-axis. Odd functions have graphs that are symmetric with respect to the origin.

Practice Problems

13. Let $f(x) = 3x^2 + 2x - 4$. Then

    (a) $f(0) = 3(0)^2 + 2(0) - 4 = \boxed{-4}$.

    (b) $f(-x) = 3(-x)^2 + 2(-x) - 4 = \boxed{3x^2 - 2x - 4}$.

    (c) $-f(x) = -(3x^2 + 2x - 4) = \boxed{-3x^2 - 2x + 4}$.

    (d) $f(x + 1) = 3(x + 1)^2 + 2(x + 1) - 4 = 3(x^2 + 2x + 1) + 2x + 2 - 4 = \boxed{3x^2 + 8x + 1}$.

    (e) $f(x + h) = 3(x + h)^2 + 2(x + h) - 4 = 3(x^2 + 2xh + h^2) + 2x + 2h - 4$
       $= \boxed{3x^2 + 6xh + 3h^2 + 2x + 2h - 4}$.

15. Let $f(x) = |x| + 4$. Then

    (a) $f(0) = |0| + 4 = \boxed{4}$.

    (b) $f(-x) = |-x| + 4 = \boxed{|x| + 4}$.

    (c) $-f(x) = -(|x| + 4) = \boxed{-|x| - 4}$.

    (d) $f(x + 1) = \boxed{|x + 1| + 4}$.

    (e) $f(x + h) = \boxed{|x + h| + 4}$.

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