(c) For any function f with domain $\mathbb{R}$, define functions E and O as in parts (a) and (b). Then $\tfrac{1}{2}E$ is even, $\tfrac{1}{2}O$ is odd, and we show that $f(x) = \tfrac{1}{2}E(x) + \tfrac{1}{2}O(x)$:

$$\tfrac{1}{2}E(x) + \tfrac{1}{2}O(x) = \tfrac{1}{2}[f(x) + f(-x)] + \tfrac{1}{2}[f(x) - f(-x)]$$
$$= \tfrac{1}{2}[f(x) + f(-x) + f(x) - f(-x)]$$
$$= \tfrac{1}{2}[2f(x)] = f(x)$$

as desired.

(d) $f(x) = 2^x + (x-3)^2$ has domain $\mathbb{R}$, so we know from part (c) that $f(x) = \tfrac{1}{2}E(x) + \tfrac{1}{2}O(x)$, where

$$E(x) = f(x) + f(-x) = 2^x + (x-3)^2 + 2^{-x} + (-x-3)^2$$
$$= 2^x + 2^{-x} + (x-3)^2 + (x+3)^2$$

and

$$O(x) = f(x) - f(-x) = 2^x + (x-3)^2 - [2^{-x} + (-x-3)^2]$$
$$= 2^x - 2^{-x} + (x-3)^2 - (x+3)^2$$

1.4 Exponential Functions

1. (a) $\dfrac{-2^4}{4^2} = \dfrac{-2^4}{(2^2)^2} = -\dfrac{2^4}{2^4} = -1$

(b) $\dfrac{(-3)^4}{9^4} = \left(\dfrac{-3}{9}\right)^4 = \left(-\dfrac{1}{3}\right)^4 = \dfrac{1}{3^4}$

(c) $\dfrac{1}{\sqrt[3]{x^4}} = \dfrac{1}{\sqrt[3]{x^4 \cdot x}} = \dfrac{1}{x\sqrt[3]{x}}$

(d) $\dfrac{x^3 \cdot x^n}{x^{n+1}} = \dfrac{x^{3+n}}{x^{n+1}} = x^{(3+n)-(n+1)} = x^2$

(e) $b^3(2b^{-1})^{-2} = b^3 2^{-2}(b^{-1})^{-2} = \dfrac{b^3 \cdot b^2}{2^2} = \dfrac{b^5}{9}$

(f) $\dfrac{2x^2 y}{(2x^{-2}y)^3} = \dfrac{2x^2 y}{2^3(x^{-2})^3 y^3} = \dfrac{2x^2 y}{9x^{-4}y^3} = \dfrac{2}{9}x^{2-(-4)}y^{1-3} = \dfrac{2}{9}x^6 y^{-1} = \dfrac{2x^6}{9y}$

2. (a) $\dfrac{\sqrt[3]{4}}{\sqrt[3]{108}} = \dfrac{\sqrt[3]{4}}{\sqrt[3]{4 \cdot 27}} = \dfrac{\sqrt[3]{4}}{\sqrt[3]{4} \cdot \sqrt[3]{27}} = \dfrac{1}{\sqrt[3]{27}} = \dfrac{1}{3}$

(b) $27^{2/3} = (27^{1/3})^2 = (\sqrt[3]{27})^2 = 3^2 = 9$

(c) $2x^2(2x^4)^2 = 2x^2 \cdot 2^2(x^4)^2 = 2x^2 \cdot 9x^{10} = 2 \cdot 9x^{2+10} = 18x^{12}$

(d) $(2x^{-2})^{-2}x^{-2} = 2^{-2}(x^{-2})^{-2}x^{-2} = \dfrac{x^4 \cdot x^{-2}}{2^2} = \dfrac{x^{4+(-2)}}{8} = \dfrac{x^2}{8}$

(e) $\dfrac{2a^{3/2} \cdot a^{1/2}}{a^{-1}} = 3a^{3/2+1/2} \cdot a^1 = 3a^2 \cdot a = 3a^3$

(f) $\dfrac{\sqrt{a\sqrt{b}}}{\sqrt[3]{ab}} = \dfrac{(ab^{1/2})^{1/2}}{(ab)^{1/3}} = \dfrac{a^{1/2}(b^{1/2})^{1/2}}{a^{1/3}b^{1/3}} = \dfrac{a^{1/2}b^{1/4}}{a^{1/3}b^{1/3}} = a^{1/2-1/3}b^{1/4-1/3} = a^{1/6}b^{-1/12} = \dfrac{a^{1/6}}{b^{1/12}} = \dfrac{\sqrt[6]{a}}{\sqrt[12]{b}}$

3. (a) $f(x) = b^x$, $b > 0$ (b) $\mathbb{R}$ (c) $(0,\infty)$ (d) See Figures 4(c), 4(b), and 4(a), respectively.

4. (a) The number e is the value of a such that the slope of the tangent line at $x = 0$ on the graph of $y = a^x$ is exactly 1.

(b) $e \approx 2.71828$ (c) $f(x) = e^x$

Calculus 2 7 Ed Solutions Manual

Albert A Gayle

Calculus 2 7 Ed Solutions Manual:

The book delves into Calculus 2 7 Ed Solutions Manual. Calculus 2 7 Ed Solutions Manual is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Calculus 2 7 Ed Solutions Manual, encompassing both the fundamentals and more intricate discussions.

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