

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

$$\begin{aligned}\frac{1}{2}E(x) + \frac{1}{2}O(x) &= \frac{1}{2}[f(x) + f(-x)] + \frac{1}{2}[f(x) - f(-x)] \\ &= \frac{1}{2}[f(x) + f(-x) + f(x) - f(-x)] \\ &= \frac{1}{2}[2f(x)] = f(x)\end{aligned}$$

as desired.

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

$$\begin{aligned}E(x) &= f(x) + f(-x) = 2^x + (x-3)^2 + 2^{-x} + (-x-3)^2 \\ &= 2^x + 2^{-x} + (x-3)^2 + (x+3)^2\end{aligned}$$

and

$$\begin{aligned}O(x) &= f(x) - f(-x) = 2^x + (x-3)^2 - [2^{-x} + (-x-3)^2] \\ &= 2^x - 2^{-x} + (x-3)^2 - (x+3)^2\end{aligned}$$

1.4 Exponential Functions

1. (a) $\frac{-2^6}{4^3} = \frac{-2^6}{(2^2)^3} = -\frac{2^6}{2^6} = -1$

(c) $\frac{1}{\sqrt[3]{2x^6}} = \frac{1}{\sqrt[3]{2x^2 \cdot x^4}} = \frac{1}{x\sqrt[3]{2}}$

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

(f) $\frac{2x^2y}{(2x^{-3}y)^2} = \frac{2x^2y}{2^2(x^{-3})^2y^2} = \frac{2x^2y}{2x^{-6}y^2} = \frac{2}{2}x^{2-(-6)}y^{1-2} = \frac{2}{2}x^8y^{-1} = \frac{2x^8}{2y}$

(b) $\frac{(-2)^6}{9^4} = \left(\frac{-2}{9}\right)^6 = \left(-\frac{1}{3}\right)^6 = \frac{1}{3^6}$

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

2. (a) $\frac{\sqrt[3]{6}}{\sqrt[3]{108}} = \frac{\sqrt[3]{6}}{\sqrt[3]{4 \cdot 27}} = \frac{\sqrt[3]{6}}{\sqrt[3]{4} \cdot \sqrt[3]{27}} = \frac{1}{\sqrt[3]{27}} = \frac{1}{3}$

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

(c) $2x^3(2x^8)^2 = 2x^3 \cdot 2^2(x^8)^2 = 2x^3 \cdot 9x^{16} = 2 \cdot 9x^{3+16} = 18x^{19}$

(d) $(2x^{-2})^{-1}x^{-2} = 2^{-1}(x^{-2})^{-1}x^{-2} = \frac{x^2 \cdot x^{-2}}{2^1} = \frac{x^{2+(-2)}}{2} = \frac{x^0}{2} = \frac{1}{2}$

(e) $\frac{2a^{3/2} \cdot a^{5/2}}{a^{-1}} = 2a^{3/2+5/2} \cdot a^1 = 2a^2 \cdot a = 2a^3$

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

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) $f(x) = e^x$

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