

- (c) For any function f with domain \mathbb{R} , define functions E and O as $\text{even}(x)$ and $\text{odd}(x)$. 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) $f(x) = 2^x + (x - 2)^2$ has domain \mathbb{R} , so we know from part (c) that $f(x) = \frac{1}{2}E(x) + \frac{1}{2}O(x)$, where

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

and

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

1.4 Exponential Functions

1. (a) $\frac{-2^2}{2^2} = \frac{-2^2}{2^2} = -\frac{2^2}{2^2} = -1$ (b) $\frac{(-2)^2}{2^2} = \left(\frac{-2}{2}\right)^2 = \left(-\frac{1}{1}\right)^2 = \frac{1}{1}$
 (c) $\frac{2}{2^2} = \frac{2}{2^{2-1}} = \frac{2}{2^1} = 1$ (d) $\frac{2^2 + 2^2}{2^{2+2}} = \frac{2^{2+1}}{2^{2+2}} = 2^{2+1-2-2} = 2^{-1}$
 (e) $2^2(2^{2-1})^{-2} = 2^{2-1}(2^{2-1})^{-2} = \frac{2^2 \cdot 2^2}{2^2} = \frac{2^2}{1}$
 (f) $\frac{2x^2y}{(2x^2y)^2} = \frac{2x^2y}{2^2x^{2+2}y^{1+2}} = \frac{2x^2y}{4x^4y^3} = \frac{2}{4}x^{2-4}y^{1-3} = \frac{2}{4}x^{-2}y^{-2} = \frac{2x^2}{16y^2}$
 2. (a) $\frac{2^2}{2^{2+2}} = \frac{2^2}{2^4} = \frac{2^2}{2^2 \cdot 2^2} = \frac{1}{2^2} = \frac{1}{4}$
 (b) $2x^{2+2} = (2^{2+2})x^2 = 2^4x^2 = 16x^2$
 (c) $2x^2(2x^2)^2 = 2x^2 \cdot 2^2(2x^2)^2 = 2x^2 \cdot 8x^4 = 16x^{2+4} = 16x^6$
 (d) $(2x^{-2})^{-2}x^{-2} = 2^{-2}(2x^{-2})^{-2}x^{-2} = \frac{2^2 \cdot 2^{-2}}{2} = \frac{2^{2-2-1}}{2} = \frac{2^2}{2}$
 (e) $\frac{2x^{2+2} \cdot 2^{2+2}}{2^2} = 2x^{2+2+2+2} \cdot 2^2 = 2x^8 \cdot 2 = 2x^8$
 (f) $\frac{2^{\sqrt{2+2}}}{2^{\sqrt{2+2}}} = \frac{2^{\sqrt{2+2}} \cdot 2^{\sqrt{2+2}}}{2^{\sqrt{2+2}} \cdot 2^{\sqrt{2+2}}} = \frac{2^{\sqrt{2+2} \cdot 2^{\sqrt{2+2}}}}{2^{\sqrt{2+2} \cdot 2^{\sqrt{2+2}}}} = \frac{2^{\sqrt{2+2} \cdot 2^{\sqrt{2+2}}}}{2^{\sqrt{2+2} \cdot 2^{\sqrt{2+2}}}} = 2^{2^{\sqrt{2+2}} - 2^{\sqrt{2+2}}} = \frac{2^{2^{\sqrt{2+2}}}}{2^{2^{\sqrt{2+2}}}} = \frac{2^{\sqrt{2+2}}}{2^{2^{\sqrt{2+2}}}}$
 3. (a) $f(x) = 4^x$, $x > 0$ (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 x such that the slope of the tangent line at $x = 0$ on the graph of $y = e^x$ is exactly 1.
 (b) $e \approx 2.71828$ (c) $f(x) = e^x$

Instructors Solutions Manual University Calculus Part Two

Rosina Ehmann



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