

- (ii) For any function  $f$  with domain  $\mathbb{R}$ , define functions  $E$  and  $O$  as  $E(x) = f(x)$  and  $O(x) = f(-x)$ . 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.

- (iii)  $f(x) = 2^x + (x - 2)^2$  has domain  $\mathbb{R}$ , so we know from part (ii) 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)  $\frac{2^2 + 2^2}{2^{2+2}} = \frac{2^{2+2}}{2^{2+2}} = 2^{2+2-2-2} = 2^0 = 1$   
 (e)  $2^2(2^{2-1})^{-2} = 2^{2+(-1)(2-1)} = \frac{2^2 \cdot 2^2}{2^2} = \frac{2^2}{1}$   
 (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)  $2x^2(2x^2)^2 = 2x^2 \cdot 2^2(x^2)^2 = 2x^2 \cdot 8x^4 = 16x^{2+4} = 16x^6$   
 (d)  $(2x^{-2})^{-2}x^{-2} = 2^{-2}(2^{-2})^{-2}x^{-2} = \frac{2^2 \cdot 2^{-2}}{2} = \frac{2^{2-2-1}}{2} = \frac{2^1}{2}$   
 (e)  $\frac{2x^{2+2} + x^{2+2}}{2^2} = \frac{2x^{2+2+1} + x^{2+2}}{2^2} = \frac{2x^5 + x^4}{2^2} = 2x^5 + \frac{1}{2}x^4 = 2x^4$   
 (f)  $\frac{2\sqrt{2x^2y}}{2^2} = \frac{2^{1/2}2^{1/2}x^{1/2}y^{1/2}}{(2^2)^{1/2}} = \frac{2^{1/2}2^{1/2}x^{1/2}y^{1/2}}{2^{2 \cdot 1/2}} = \frac{2^{1/2+1/2}x^{1/2}y^{1/2}}{2^{1+1/2}} = 2^{1/2+1/2-1-1/2}x^{1/2}y^{1/2} = \frac{2^{1/2}}{2^{3/2}} = \frac{2^0}{2^1}$   
 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

**Jon Rogawski**



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