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

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

$$= \frac{1}{2}[f(x) + f(-x) + f(x) - f(-x)]$$

$$= \frac{1}{2}[2f(x)] = f(x)$$

are dentated.

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

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

SECURE.

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

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

1.4 Exponential Functions

1. (a) $\frac{-2^4}{4^3} = \frac{-2^4}{(5^2)^3} = -\frac{2^4}{5^4} = -1$

$$(8) \frac{(-3)^4}{9^4} = \left(\frac{-3}{9}\right)^4 = \left(-\frac{1}{2}\right)^4 = \frac{1}{2^4}$$

 $(0, \frac{1}{2^{n+1}} = \frac{1}{2^{n+1}} = \frac{1}{2^{n+1}}$

$$(\oplus \frac{x^2 \cdot x^n}{x^{n+1}} = \frac{x^{2+n}}{x^{n+1}} = x^{(2+n)-(n+1)} = x^2$$

(4) $b^{2}(3b^{-1})^{-2} = b^{2}2^{-2}(b^{-1})^{-2} = \frac{b^{2} \cdot b^{2}}{5^{2}} = \frac{b^{4}}{5}$

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

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

(b)
$$27^{3/2} = (27^{1/2})^2 = (\sqrt[4]{27})^2 = 3^2 = 9$$

$$(c) 2x^{2}(2x^{4})^{2} = 2x^{2} \cdot 3^{2}(x^{4})^{2} = 2x^{2} \cdot 9x^{10} = 2 \cdot 9x^{2+10} = 18x^{12}$$

(d)
$$(2\pi^{-2})^{-2}x^{-2} = 2^{-1}(x^{-2})^{-2}x^{-2} = \frac{x^6 \cdot x^{-2}}{2^2} = \frac{x^6 \cdot (-1)}{8} = \frac{x^2}{8}$$

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

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

- 1. (a) $f(x) = b^{\mu}$, b > 0 (b) R (c) $(0, \infty)$
- (d) See Figures 4(c), 4(b), and 4(s), respectively.
- (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" is exactly 1.
 - (b) e = 2.71528
- $(0) f(x) = e^x$

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Raouf A. Ibrahim

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