

Chapter 4

Exponential and Logarithmic Functions

4.1 Exponential Functions; Continuous Compounding

1. Using the TI-84 Plus, find e^2 by pressing

2nd e^x , then 2, right parenthesis, and

Enter to get $e^2 \approx 7.389$. Similarly,

$$e^{-2} \approx 0.135, \quad e^{0.05} \approx 1.051,$$

$$e^{-0.05} \approx 0.951, \quad e^0 = 1, \quad e \approx 2.718,$$

$$\sqrt{e} \approx 1.649, \quad \frac{1}{\sqrt{e}} \approx 0.607.$$

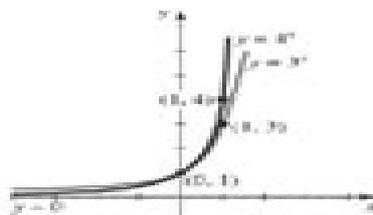
2. $e^3 \approx 20.086$ $e^{-1} \approx 0.368$

$$e^{0.01} \approx 1.010 \quad e^{-0.1} \approx 0.905$$

$$e^2 \approx 7.389 \quad e^{-1/2} \approx 0.607$$

$$e^{1/3} \approx 1.396 \quad \frac{1}{\sqrt[3]{e}} \approx 0.717$$

- 3.



4. $y_1 = \left(\frac{1}{3}\right)^x$ and $y_2 = \left(\frac{1}{4}\right)^x$ pass through

$(0, 1)$. The x axis is a horizontal asymptote. y_2 lies above y_1 for $x < 0$.

5. (a) $27^{2/3} = (27^{1/3})^2 = 3^2 = 9$

$$(b) \left(\frac{1}{9}\right)^{3/2} = \frac{1}{(9^{3/2})^2} = \frac{1}{3^2} = \frac{1}{27}$$

6. (a) $(-128)^{2/7} = -8$

$$(b) \left(\frac{27}{64}\right)^{2/3} \left(\frac{64}{25}\right)^{3/2} = \frac{3^2}{4^2} \frac{8^3}{5^2} = 2.304$$

7. (a) $8^{2/3} + 16^{3/4} = (8^{1/3})^2 + (16^{1/4})^3$
 $= 2^2 + 2^3$
 $= 4 + 8$
 $= 12$

$$(b) \left(\frac{27+36}{121}\right)^{3/2} = \frac{(63^{3/2})^3}{(121^{3/2})^3}$$

$$= \frac{(3\sqrt{7})^3}{11^3}$$

$$= \frac{189\sqrt{7}}{1331}$$

8. (a) $(2^3 - 3^2)^{1/7} = (8 - 9)^{1/7} = -1$

$$(b) (27^{2/3} + 8^{4/3})^{-3/2} = (3^2 + 2^4)^{-3/2}$$

$$= 0.008$$

9. (a) $(3^3)(3^{-2}) = 3^{3+(-2)} = 3$

$$(b) (4^{2/3})(2^{2/3}) = (2^2)^{2/3}(2^{2/3})$$

$$= (2^{4/3})(2^{2/3})$$

$$= 2^{6/3}$$

$$= 4$$

Chapter 4 Exponential And Logarithmic Functions

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