

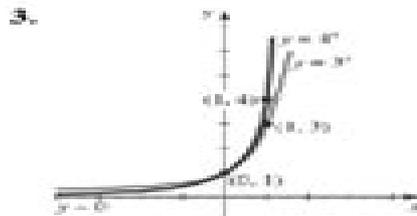
## Chapter 4

### 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,  $e^{-2} \approx 0.135$ ,  $e^{0.05} \approx 1.051$ ,  $e^{-0.05} \approx 0.951$ ,  $e^0 = 1$ ,  $e \approx 2.718$ ,  $\sqrt{e} \approx 1.649$ ,  $\frac{1}{\sqrt{e}} \approx 0.607$ .

2.  $e^3 \approx 20.086$      $e^{-1} \approx 0.368$   
 $e^{0.01} \approx 1.010$      $e^{-0.1} \approx 0.905$   
 $e^2 \approx 7.389$      $e^{-1/2} \approx 0.607$   
 $e^{1/3} \approx 1.396$      $\frac{1}{\sqrt[3]{e}} \approx 0.717$



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

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

**Robert Blitzer**



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