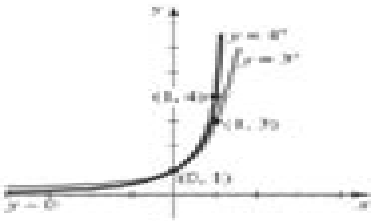
Chapter 4

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

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

6. (a) $(-128)^{3/7} = -8$

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

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

   (b) $\left(\frac{27 + 36}{121}\right)^{3/2} = \frac{(63^{1/2})^3}{(121^{1/2})^3}$
   $= \frac{\left(3\sqrt{7}\right)^3}{11^3}$
   $= \frac{189\sqrt{7}}{1331}$

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

   (b) $\left(27^{2/3} + 8^{4/3}\right)^{-3/2} = \left(3^2 + 2^4\right)^{-3/2}$
   $= 0.008$

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

   (b) $(4^{2/3})(2^{2/3}) = (2^2)^{2/3}(2^{2/3})$
   $= (2^{4/3})(2^{2/3})$
   $= 2^{6/3}$
   $= 4$

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S Ben Porath

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