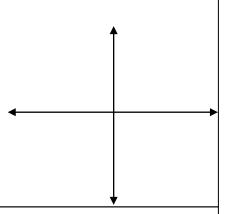
Hw# Omega 2A

Use a calculator to evaluate each expression to the nearest ten thousandth.

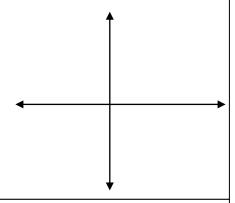
$_{1}$ $7^{\sqrt{5}}$		#2)	$8^{\sqrt{3}}$		#3)	$5^{\sqrt{10}}$	
	#1			#2			#3

Graph each equation using the parent graph.

#4) 
$$y = 3^x$$

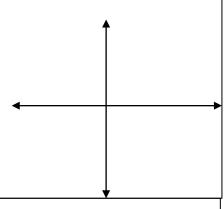


$$y = \left(\frac{1}{3}\right)^x$$

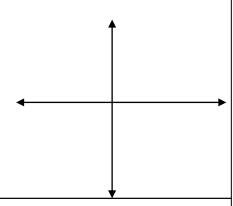


#6) Compare and contrast the graphs from example #4 and #5.

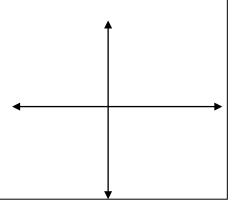




 $y = 3^{-x}$ #8)



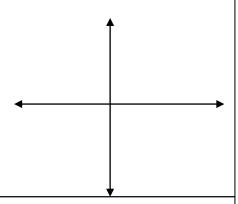
#9)  $y = -3^x$ 



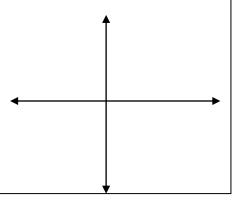
Hw# Omega 2A

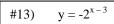
#10) 
$$y = \left(\frac{1}{5}\right)^x$$

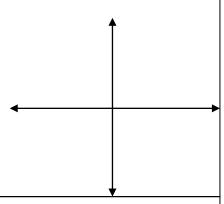
 $y = 2^{x+3}$ #11)



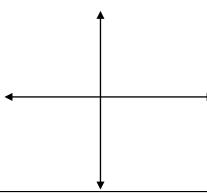
 $y = -2^{x+3}$ #12)







 $y \le \left(\frac{1}{2}\right)^x$ #14)



What is the future value of an annuity if \$1000 is deposited into an account paying 6% every six #15) months for 12 years?

Hw# Omega 2A

		_
#16)	The state of Ohio offers its lottery winners a choice of prizes, with the jackpot amount paid in equal annual payments over 26 years or the present value of the annuity in one lump sum. If Mr. Arthur won a \$4.5 million jackpot, how much would its lump-sum payment be? The interest rate used to find the present value is the yearly rate of inflation which is 5%.	
#17)	The Millers are saving for their daughter's college education. If they want to add \$20,000 to her college fund at the end of five years, how much should they deposit each month into an account with an APR of 6.12%?	

- 1) 77.5705
- 2) 36.6604
- 3) 162.3070
- 4) Use Calculator to check answer
- 5) Use Calculator to check answer
- 6) The graphs are reflections of each other over the y-axis.
- 7) Use Calculator to check answer
- 8) Use Calculator to check answer
- 9) Use Calculator to check answer
- 10) Use Calculator to check answer
- 11) Use Calculator to check answer
- 12) Use Calculator to check answer
- 13) Use Calculator to check answer
- 14) Use Calculator to check answer
- 15) \$34,426.47
- 16) \$2,488,012.84
- 17) \$285.77