Math 165: Worksheet #14 – Exponential Growth and Decay

1.	Assume you invest \$5,000 in an account paying 8% interest compounded										
	monthly.	How	much	money	will	be in	the	account	after	5 years?	

- 2. Find the amount of money you will have after 10 years if \$15,000 is invested in accounts paying 6% interest compounded:
 - a. Annually
 - b. Quarterly
 - c. Monthly
 - d. Daily
 - e. Continuously
- Would it be better to invest \$10,000 for 8 years at 8% interest compounded quarterly or 6.5% interest compounded continuously? Justify your answer.
- 4. Derek invested \$1,500 into an account that pays 9% interest compounded monthly. How long must the money be left in the account for it to grow to \$2,147.11?