4. You want to create a college savings fund for your nephew. How much do you need to deposit monthly into an account that offers an APR of 6% in order to accumulate \$20,000 in 15 years?

5.	You are 18 years old, but already have your retirement plans settled. You want to retire early at age 40, and be able to draw on retirement savings earning \$50,000 per year, forever.			
	(a)	What balance will you need, in order to earn \$50,000 annually from interest with an APR of $5\%?$	in an a	ccount
	(b)	Suppose now you make regular monthly payments into a savings plan, trying to a balance of \$1.5 million upon your retirement. Determine your required month (Assume again the APY is 5% .)		
6.	You	have borrowed \$100,000 for a period of 30 years at an APR of 5.5%.		
	(a)	Determine your monthly payment on your loan.		
	(b)	Determine the total payment over the 30 years of the loan.		
7.	(a)	v	linear linear linear	nswer). exponential exponential exponential exponential
	(b)	The population of Smallville is decreasing (at a rate of 250 people per year as a of few economic opportunities. How much will it decrease by in the next 20 year	,	ecause

