Calculators Allowed Section- you may do work on a separate paper and staple, but put answers on test.	
6, 7.5, 9, 10.5, 12	30
and the state of t	$\sum_{x=1}^{\infty} 3x - 1$
What is the value of the 123 rd term of the sequence?	\overline{n} =1
5,10,20,40,80	$\sum_{n=0}^{\infty} a_n c^2 n^{-1}$
Write an explicit rule for the sequence	$\sum_{n=1}^{\infty} 90(\frac{2}{3})^{n-1}$
write an explicit rule for the sequence	n-1
An=	
A sequence is defined recursively as a ₁ =4 and a _n =2a _{n-1}	On April first, you will give me a penny. The next day you
,	will give me two cents. The next day, you will give me
Find the value of the 6 th term	four cents, then 8, then 16 and so on
	How much money will you have given me during the
	month of April (30 days)?
	Thank you, very much!
The population of the town of Algeville is currently 1000 people and it grows at a rate of 10% every year.	Bob invests \$5000 in a savings account that gives 3% interest compounded daily.
people and it grows at a rate of 10% every year.	interest compounded daily.
Write an function to determine the population of the	Write an function to determine the amount of money he
town in 8 years.	will have in t years
P(t)=	A(t)=
	Use a graphing calculator or algebra to find out how long
	it will take him to double his money to the nearest year
P(8)=	, ,
	Time to double ≈ years
Calculate to the nearest thousandth	Solve to the nearest thousandth
$\log_7 1000$	$5^{x+1} - 2 = 998$
Solve to the nearest thousandth	Solve for t to the nearest hundredth
ln(3x-1)=4	3000=1000e ^{0.05t}

Calculators Not Allowed Section	
How much more powerful is an earthquake of magnitude 7 than an earthquake of magnitude 4?	Evaluate log(100,000,000)
Rewrite as a logarithmic equation	Rewrite as an exponential equation
$5^3 = 125$	$\log_4 \frac{1}{16} = -3$
Evaluate log ₃ 81	Evaluate $\log_2 \frac{1}{16}$
Simplify $6^{\log_6 36}$	Simplify $\ln e^7$
Evaluate log(50) + log(2)	Given $\log(2) \approx .301 \log(3) \approx .477 \log(10) = 1$ Use those facts (and basic arithmetic) to approximate the following values
Evaluate log₃90 - log₃30	log(6) ≈
Solve 2 ^{x-3} =32	log(5) ≈
	log(27) ≈
Solve log₃(2x+1)=3	Solve $\log_2 x + \log_2(x - 4) = 5$
On separate graph paper, graph the parent function $f(x)=2^x$ and then describe the transformations needed to graph $g(x)=2^{x+2}-4$ and graph it. Label each graph	On separate graph paper, regraph $f(x)=2^x$ and then explain how it can be used to help you graph $h(x)=\log_2 x$. Graph $h(x)$. Then graph $j(x)=\log_2(x-3)$
State the domain and range of g(x) in interval notation	State the domain and range of j(x) in interval notation

Algebra 2 Unit Exam: Sequences, Series, Exponents, Logarithms