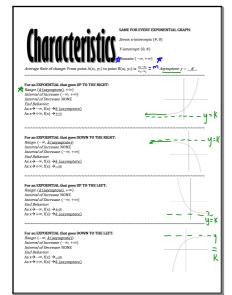
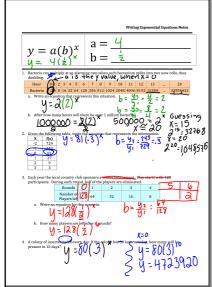


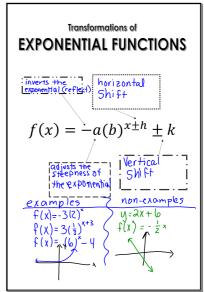
Feb 15-10:49 AM



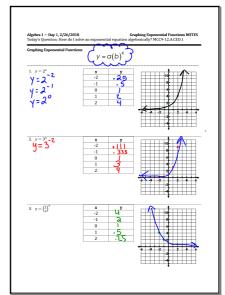
Feb 15-10:51 AM



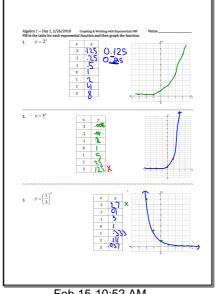
Feb 15-10:52 AM



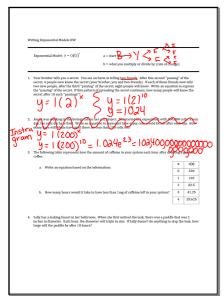
Feb 15-10:50 AM



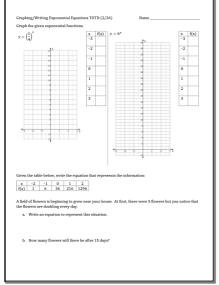
Feb 15-10:51 AM



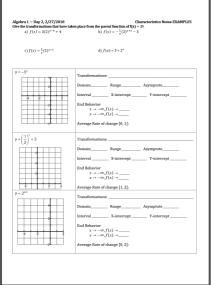
Feb 15-10:52 AM



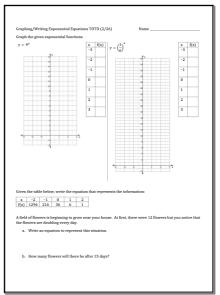
Feb 15-10:52 AM



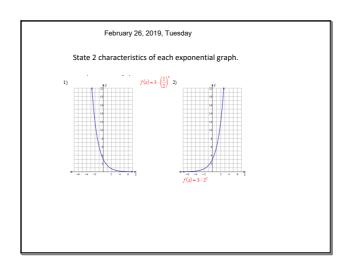
Feb 15-10:53 AM



Feb 15-10:54 AM



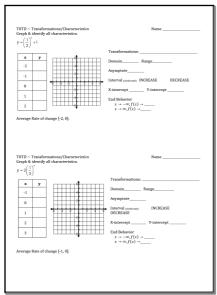
Feb 15-10:53 AM



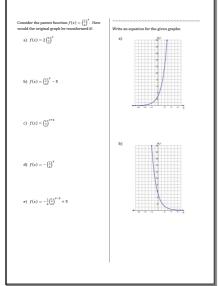
Feb 15-10:53 AM

Give the transformations that 1. $f(x) = 2^{x+2} - 5$	have taken place from the parent function of $f(\mathbf{x}) = 2^{\mathbf{x}}$. 2. $f(\mathbf{x}) = 2^{\mathbf{x}-\mathbf{x}}$ 3. $f(\mathbf{x}) = -2^{\mathbf{x}} - 1$
y = 2***	Transformations
y = -3 ^{sol} - 2	Transformations State 3 points on Graph Domain Range Asymptote Interval X.intercept Interval X.intercept Vision (1)

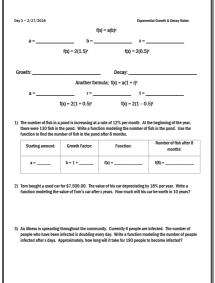
Feb 15-10:56 AM



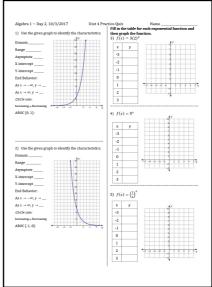
Feb 15-10:56 AM



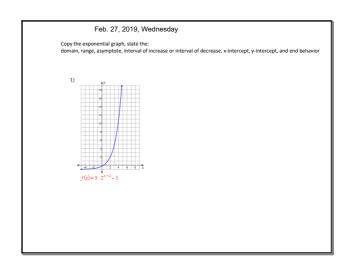
Feb 15-10:57 AM



Feb 15-10:58 AM



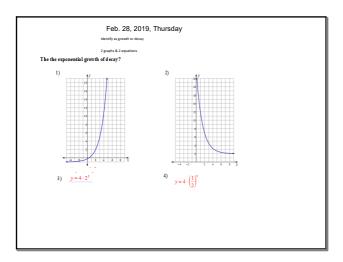
Feb 15-10:56 AM



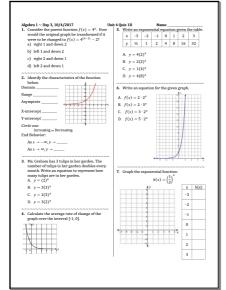
Feb 15-10:57 AM

_	Growth: $y = P(1+r)^t$ Decay: $y = P(1-r)^t$
	The mice population is 25,000 and is decreasing by 20% each year. Write a model for this situation. What will be the mice population after 3 years?
	The number of mosquitoes at the beach has tripled every year since 1999, in 1999, there were 2,500 mosquitoes. Write a model for this situation. How many mosquitoes would you predict were at the beach in 2005?
	I beought a car for \$25,000, but its value is depreciating at a rate of 10% per year. How much will my car be worth after 8 years?
	Your starting salary at a new company is \$34,000 and it increase by 2.5% each year. What will your salary be in 5 years?
5)	In 2010 an item cost \$9.00. The price increase by 1.5% each year. How much will it cost in 20 years?
	The yearly profits of a company are \$25,000. The profits have been decreasing by 6% per year. What will be the profits in 8 years?
7)	You bought \$2000 worth of stocks in 2012. The value of the stocks has been decreasing by 10% each year. What will your stock be worth in 5 years?
8)	Your car cost \$42,500 when you purchased it in 2015. The value of the car decreases by 15% annually. How much will your car be worth in 7 years?

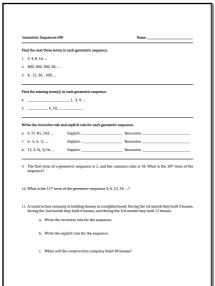
Feb 15-10:59 AM



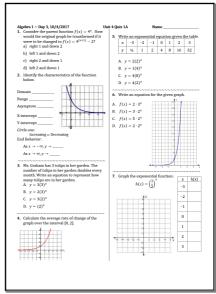
Feb 15-10:59 AM



Feb 15-11:01 AM



Feb 15-11:04 AM



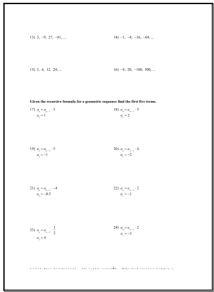
Feb 15-11:00 AM

	Common ratio	Recursive Formula	Explicit Formula
1, 2, 4, 8, 16,			
$10, -2, \frac{2}{5}, -\frac{2}{25}, \dots$			
5, 15, 45, 135,			
320, 80, 20, 5,			
$g_n = -1(3)^{n-1}$	-	quence defined as follows:	
Find the first five to $g_n = g_{n-1} \cdot \frac{1}{4}$, gi		sequence defined as follows:	
. A colony of ants start a. Write an	s with 5 members. The explicit function to rep	colony triples every year. resent the sequence.	
b. How man	y members will the col	lony have after 3 years?	
c. How man	y years will it take for	the colony to reach greater than	1,000 ants?
. Find the common rat	io and the missing term	n in the sequence	
	, 567,		

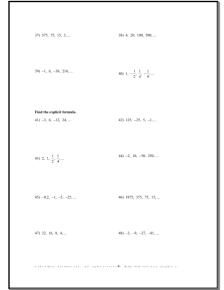
Feb 15-11:02 AM

Algebra I	Name II
Geometric Sequence Practice	DatePeriod_
State if each sequence is geometric.	
1) -4, 8, -16, 32,	2) 2, -12, -26, -40,
3) 11, 17, 23, 29,	4) 4, 12, 36, 108,
5) -10, -5, 0, 5,	6) -2, -12, -72, -432,
7) 1, 6, 36, 216,	8) 9, 99, 999, 9999,
Find the common ratio. 9) -4, 8, -16, 32,	10) -3, 9, -27, 81,
11) 2, 8, 32, 128,	12) 4, 12, 36, 108,

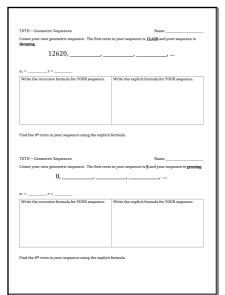
Feb 15-11:04 AM



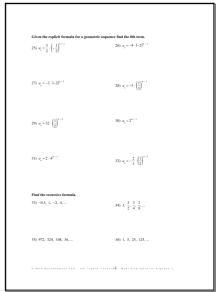
Feb 15-11:04 AM



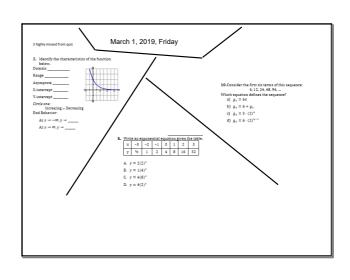
Feb 15-11:05 AM



Feb 15-11:09 AM



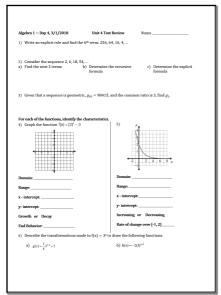
Feb 15-11:04 AM



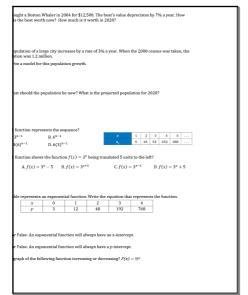
Feb 15-11:05 AM

TOTD ~ Geome	tric Sequences	Name							
Create your ow decaying	n geometric sequence. The first term	in your sequence is 24330 and your sequence is							
	24330,,,								
a1 =	,r=								
Write the recu	rsive formula for YOUR sequence.	Write the explicit formula for YOUR sequence.							
		formula.							
TOTD ~ Geome Create your ow	n geometric sequence. The first term	Name							
Create your ow	n geometric sequence. The first term	Name							
Create your ow	n geometric sequence. The first term 3,,,,,	Name, in your sequence is 3 and your sequence is 5 and your							
Create your ow	n geometric sequence. The first term 3,,,,,	Name							

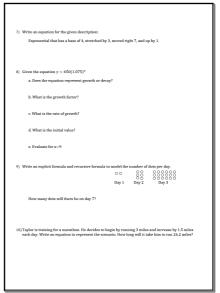
Feb 15-11:10 AM



Feb 15-11:10 AM



Feb 15-11:10 AM



Feb 15-11:10 AM

y		32 e func	16 tion e	8 xpone	ential gro	wth or	expon	ential	decay	?						
ь	Writ	e the e	quat	ion of	the funct	ion.										
					00 and it in tyear		iated :	in valu	ie %10) per y	sar. V	Vrite	an e	•qua	tion	to
					-1 + 4, esent gro	with or	decay	n								
					f the asy											
					ations th											
2) Giver																
					esent gro							-				
					f the asyr			_	-							
e,	Descr	ibe th	e tran	storn	ations th	sat occu	ır:									

Feb 15-11:10 AM