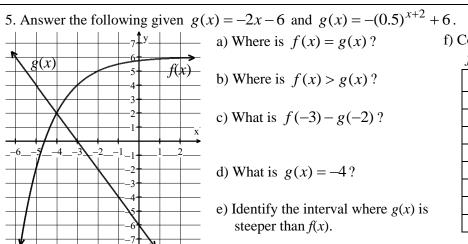
Math 2		Name:	Period:		
Module 0, Day 4		Date:	Period:		
Show all your v	Show all your work and reasoning. Use a pencil and highlight your answers.				
1. The table below represents the sequence. Determine explicit for this sequence. n 1 n 14 $f(n)$ 16		2. The table below represent sequence. Determine exp for this sequence. n n n $f(n)$ 81920 5	blicit and recursive functions		
Explicit:		Explicit:			
Recursive:		Recursive:			
3. Solve for x.					
a) $\left(\frac{1}{9}\right)^x = 243$	b) $6^{x+7} = \frac{1}{216}$	c) $\frac{1}{8} = 3$	32 ^{<i>x</i>}		
4. Eric and Tommy each received \$1000 from their families when they were born. Eric's parents put his money in a savings account that earns 5.7% interested compounded annually. Tommy's parents put his money in an account that earns \$100 per year.					
a) Write explicit and recursive equations to represent Eric's situation.	 b) Write explicit and re equations to represe Tommy's situation. 	ent when they tu	n withdraw their money rn 18 years old. Who will t of money at that time?		
Explicit:	Explicit:				
	Recursive:				

Recursive:

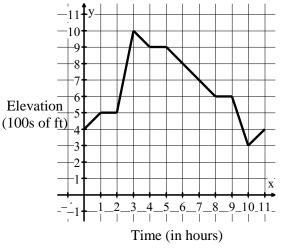


f) Complete the table, and then graph f(x) + g(x).

x	f(x)	g(x)	f(x) + g(x)	
-6				
-5				
-4				
-3				
-2				
-1				
0				
1				

6. Write a linear equation that models the situation.a) Jorge placed a large coordinate grid on the ground to track the jumping direction of his frogs. Jorge put one frog on the point (-60, 140) and it leaped to (42, -98).	7. Determine if these relationships are functions and justify your reasoning.a) A person's name versus their driver license number.
b) A new cake shop sold 70 cakes on the first day, and every day thereafter, it sold 50 more cakes.	b) The number of seashells washed up on shore throughout a week.

- 8. The following graph of function f(x) tracked the various elevations (in hundreds of feet) as Mike and Steve hiked through the Anza-Borrego Desert.
- a) Identify the domain and range explain what they mean within the context of the problem.
- b) In this situation, what does f(5) mean? Next, determine the value.



- c) In this situation, what does f(x) = 1000 mean? Determine the value.
- d) Find the indicated values. a) f(4) b) f(6)

c) f(x) = 300, x =

