Day 1 Spiral Review

Sequence	Arithmetic or Geometric	Recursive Function	Explicit Function
5, 9, 13, _____, _____, ...			
60, 30, _____, _____, ...	Geometric		
4, _____ , _____, 19, ...	Arithmetic		
		$f(n) = 2f(n-1)$ $f(0) = 7$	
		$f(n) = f(n-1)$ $f(1) = 4$	
			$f(n) = 2n + 4$
			$f(n) = 5(2)^n$

Day 2 Spiral Review - Linear vs. Exponential Research

Sequence	Arithmetic or Geometric	Recursive Function	Explicit Function
			$f(n) = 2n + 4$
			$f(n) = 5(2)^n$
		$f(n) = f(n-1) \cdot 3$ $f(5) = 15,552$	
		f(n) = f(n-1) + 5 $f(2) = 9$	

Day 3 - Linear vs. Exponential Spiral Review

	Linear or Exponential	Explicit Equation	Discrete or Continuous
1. A gym's customer must pay $50 for a membership, plus $3 for each time they use the gym.			
2. The relationship between the distance driven and total cost when a taxi driver charges $2.50 for the first mile and $1.50 for each additional mile.			
3. A bank account starts with $10. Every month, the amount of money in the account is tripled.			
4. The relationship between the			

number of bacteria and time when a culture of 6000 bacteria reduced by 50% every four hours.			
5. At the start of a carnival, you have 50 ride tickets. Each time you ride a roller coaster, you have to pay 6 tickets.			
6. The relationship between the volume of a landfill and time given that the volume doubles every three years.			
7. There are 20,000 owls in the wild. Every decade, the number of owls is halved.			
8. The relationship between the altitude of a hot air balloon and time when the hot air balloon takes off at 5500 feet sea level and rises 120 feet every minute.			