AC	GS 1	Name: F	Period:	Date	e:
As	signment	2.1 – Discrete vs. Continuous Relationships			
		ther the following statements represent a <i>discrete</i> or a c you chose either discrete or continuous.	continuous re	elatio	onship, then
1.	The hair o	on your head grows ½ inch per month.	Discrete	or	Continuous?
	Explar	nation:			
2.		ton of paper that is recycled, 17 trees are saved. nation:	Discrete	or	Continuous?
3.	Approxim	nately 3.24 billion gals for water flow over Niagara Fall	s daily.		
	Evolar	nation:	Discrete	or	Continuous?
	Explai				
4.		ge person laughs 15 times a day. nation:	Discrete	or	Continuous?
5.	The city c	of Buenos Aires adds 6,000 tons of trash to its landfills o	every day.		
	Evolar	nation:	Discrete	or	Continuous?
	Lapiai				
6.	During th	e Great Depression, stock market prices fell 75%.	Discrete	or	Continuous?
	Explar	nation:			

Refresh Your Memory

Evaluate each using the values given.

7.
$$2y - 3(z + z^2)$$
; use $y = 10$ and $z = 2$
8. $\frac{(y+x)}{2} + 6x$; use $x = 3$ and $y = 4$

9.
$$\frac{x^3}{3} - 5y$$
; use $x = 6$ and $y = 12$
10. $c\left(\frac{bc}{4}\right)^2 - 2(7 - a)$;
use $a = 4, b = 2, and c = 6$

11. Identify the type of sequence and write a recursive and explicit function.

x	f(x)	
0	1.5	
1	0.75	
2	0	
3	-0.75	

- a) Is this arithmetic or geometric?
- b) Recursive:
- c) Explicit: