Algebraic Reasoning Name:				Algebraic Reasoning Name:			
Per:				Per:			
POINTS:			POINTS:				
Classwork #15 Quiz			Classwork #15 Quiz				
Be sure to inclu	ıde your	work whe	en appropriate.	Be sure to incl	ude your	work whe	en appropriate.
Use finite differences to determine if the data sets represent linear, exponential, quadratic, or cubic function.		Use finite differences to determine if the data sets represent linear, exponential, quadratic, or cubic function.					
1.				1.			
	x	f(x)			x	f(x)	ŀ
	-1	-5			-1	-5	
	0	0			0	0	
	1	5			1	5	
	2	40			2	40	
	3	135			3	135	
	4	320			4	320	

Write a cubic function for the values in the table.

2.

x	y
0	1
1	9
2	57
3	181
4	417
5	801

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For questions 3 and 4, use the following information.

WEIGHT OF PACKAGE, w (POUNDS)	PRICE TO MAIL PACKAGE, p (\$)
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1	3.45
2	6.60
3	10.65
4	16.80
5	26.25

3. Write a cubic function to represent the given data.

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4. Use your cubic function to determine the cost to mail a 6-pound package.

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