

Name: _____

Per: _____

POINTS: _____

Homework #15 Quiz

Be sure to include your work when appropriate.

1. determine whether the set of data represents a linear, exponential, quadratic, or cubic function.

x	y
1	40
2	38
3	36
4	34
5	32
6	30

2. determine if the given relationship is a cubic function. If it is, write a function relating the variables.

x	y
-1	8
0	5
1	6
2	11
3	20
4	33

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3. Write a cubic function for the values in the table.

x	y
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A local mail service charges different rates, based on the weight of the packages mailed. A sample of their prices is shown in the table below.

WEIGHT OF PACKAGE, w (POUNDS)	PRICE TO MAIL PACKAGE, p (\$)
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4. Use a cubic function to determine the cost to mail a 6-pound package.

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