

Algebraic Reasoning

Name: _____

Per: _____

POINTS: _____

Classwork #13 Quiz

Be sure to include your work when appropriate.

Use finite differences to determine if the data sets represent linear, exponential, quadratic, or other type of function.

1.

x	$y = f(x)$
1	-13
2	-28
3	-45
4	-64
5	-85

Use the data set to generate a quadratic function that best models the data.

2.

x	$y = f(x)$
1	-12
2	-20
3	-24
4	-24
5	-20

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Classwork #12 Quiz

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Use finite differences to determine if the data sets represent linear, exponential, quadratic, or other type of function.

1.

x	$y = f(x)$
1	-13
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3	-45
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Use the data set to generate a quadratic function that best models the data.

2.

x	$y = f(x)$
1	-12
2	-20
3	-24
4	-24
5	-20

For questions 3 and 4, use the following information.

TIME IN SECONDS, x	DISTANCE FROM THE GROUND IN METERS, $f(x)$
0	0
1	30
2	50
3	60
4	60
5	50

3. Use the data in the table to generate a quadratic function that models the data.

4. Use the data in the table to find the height of the ball after 7 seconds.

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0	0
1	30
2	50
3	60
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