

**Step 1 – Identifying the Structure of Linear, Quadratic, or Exponential Functions**

Use the graph to determine the structure of the function. Write the equation of the function.

Graph 1:  $y = 2x + 3$       Graph 2:  $y = x^2 + 4x + 4$       Graph 3:  $y = 2(3)^x - 1$

Identify the structure of the function. Write the equation of the function.

Graph 4:

Linear

Graph 5:  $y = 2x^2 + 4x + 2$   
Quadratic

$y = 2(3)^x - 1$   
Exponential

Linear

Graph 6:

Quadratic

Graph 7:  $y = 2(3)^x - 1$   
Exponential

Graph 8:

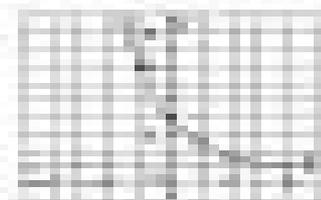
Quadratic

**Step 2 – Comparing Linear, Quadratic, and Exponential Functions**

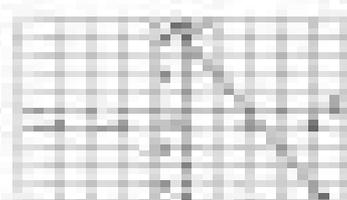
Use the graph to determine the structure of the function. Write the equation of the function.

Graph 9:

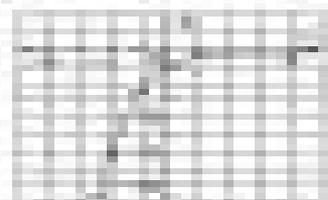
Linear:  $y = 2x + 3$       Graph 10:  $y = x^2 + 4x + 4$       Graph 11:  $y = 2(3)^x - 1$



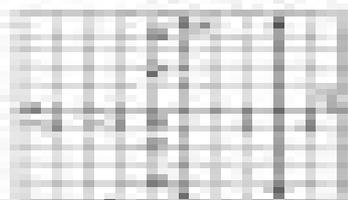
Linear



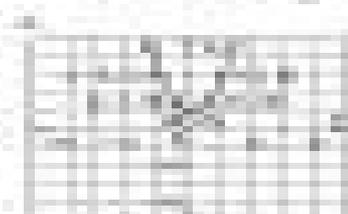
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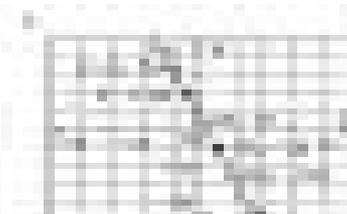
Exponential



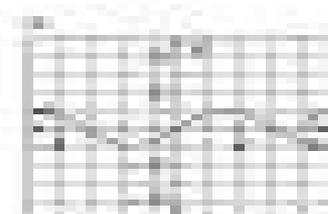
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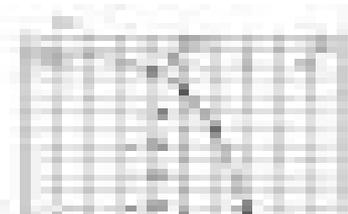
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# Comparing Linear And Exponential Function Answer Key

**Xiaolong Qi**



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**Students' Understanding of the Comparison of Linear, Quadratic and Exponential Functions** Aaron Neal Simon, 1997

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*California Common Core State Standards* California Department of Education, 2013

*Math Dictionary With Solutions* Chris Kornegay, 1999-03-06 I have never seen anything even close to this level of breadth. It's a very thorough and comprehensive source book for mathematical ideas, terminology, definitions, and examples. Math Dictionary with Solutions 2nd would be an excellent reference book for instructors of basic mathematics and statistics courses, as well as for non-math majors taking required math and statistics courses.

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