1 Absolute and Relative Change Part 1

Let's practice calculating both the absolute change:

 ${\bf New\ Meaurement-Old\ Measurement}$

and the relative change:

 $\frac{\text{New Meaurement}}{\text{Old Measurement}}$

of this population on each time interval given below.

	Absolute Change	Relative Change Multiple
t=0 to $t=1$		
t=1 to $t=2$		
$t=2 ext{ to } t=3$		
t=3 to $t=4$		

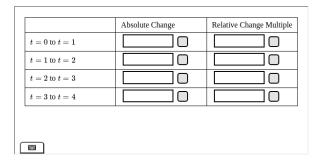


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- 1. As a group, make some observation about this table:
 - How does the absolute change of these measurements behave from one time interval to the next?
 - How does the relative change of these measurements behave from one time interval to the next?

2 Absolute and Relative Change Part 2

Use the table below to calculate both the absolute change and the relative change of this amount on each time interval given.

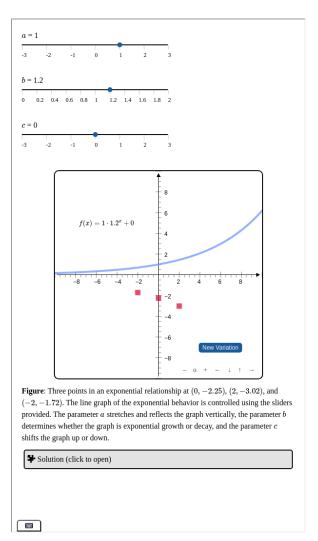




- 1. As a group, make some observation about this table:
 - How does the absolute change of these measurements behave from one time interval to the next?
 - How does the relative change of these measurements behave from one time interval to the next?
 - How are these behaviors different from and similar to the behaviors you observed for Worksheet 1?

3 Exponential Graphs

Below we'll practice graphing the family of exponential relationships $f(x) = a \cdot b^x + c$. Use the sliders for each parameter to change the graph to a new exponential relationship that goes through all three points given.



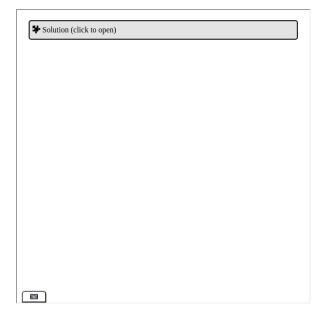


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1. Choose new variations of the problem with the "New Variation" button. Before moving on, attempt at least 3 different versions, and write down observations for how graphs of exponential relationships can behave as if you were explaining it to someone new.

4 Stock Behavior Over Time

On a separate sheet of paper, sketch what you think the line graph would look like for the stock over time for each of the initial stock values of S=5, S=6, and S=7. After your group has discussed your responses, you can use the interactive below to check your answers.





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5 Stabilizing and Amplifying Exponential Behavior

Work in your group to put these ideas together by grouping together all graphs and equations that are stabilizing and amplifying. Separate your answers with a comma.

