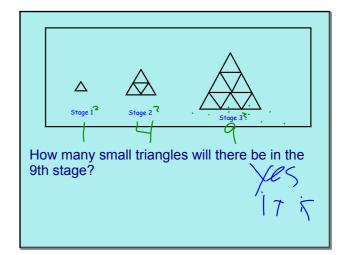
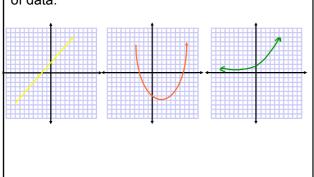
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Section 9-7 Linear, Quadratic and Exponential Models

Students will be able to choose a linear, quadratic, or exponential model for data.



You can use the linear, quadratic or exponential functions you have studied to model some sets of data.



which model is the most appropriate for each set?

1. (0, 0), (1, 1), (-1, -0.5), (2, 3)



2. (-2, 11), (-1, 5), (0, 3), (1, 5)



Things to remember:

if the x values have a common difference and the y-values also have a common difference, it will be a tinear model Add (Swotract Summal)

-if the x values have a common difference and the y-values have a common ratio, it is an exponential model you have a mount

-it the x values have a common difference, and the y-values have a common second difference, it is a quadratic model.

What type of function is the following?

$$\begin{array}{c|c} x & y & & \\ \hline -1 & 1 & & -2 & \\ 0 & -1 & 2 & \\ 1 & 1 & 2 & \\ 2 & 7 & 6 & \\ 3 & 17 & 10 & \\ \hline 7 & -7 & -1 & \\ \hline 7 & -7 & -1 & \\ \end{array}$$

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