

Name: _____ Date: _____

Functions

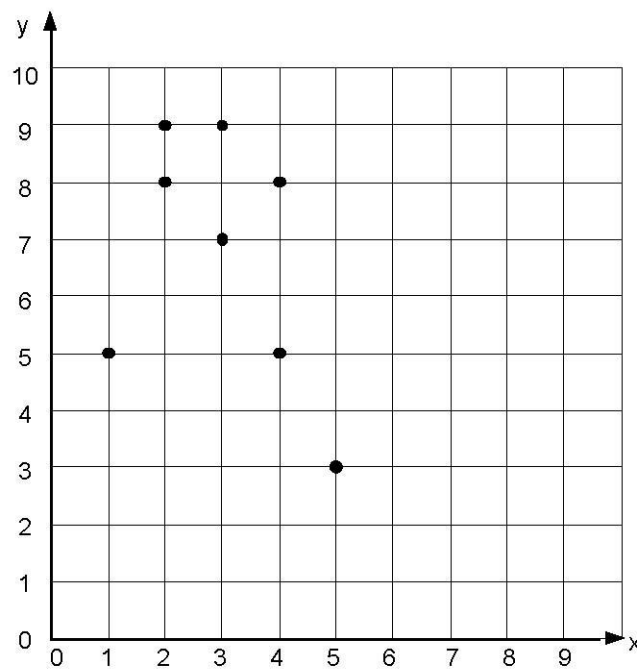
This problem gives you the chance to work with graphs and equations of linear and non-linear functions.

On the grid are eight points from two different functions.

- Four points fit a **linear** function.
- The other four points fit a **non-linear** function.

For the **linear** function:

1. Write the coordinate pairs of its four points.
Draw the line on the grid.
2. Write an equation for the function. Show your work.



For the **non-linear** function:

3. Write the coordinate pairs of its four points. Draw the graph of the function on the grid.



The non-linear function is quadratic

Chris

The non-linear function is exponential



Alex

4.

Who is correct? _____
Explain your reasons.

5. Write an equation that fits the non-linear function. Show your work and explain your reasoning.