## 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.
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$\qquad$
$\qquad$
$\qquad$


Draw the line on the grid.
2.Write an equation for the function.

Show your work.
$\qquad$

For the non-linear function:
3. Write the coordinate pairs of its four points.
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$\qquad$
$\qquad$

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Draw the graph of the function on the grid.
4.


Chris

Who is correct?
Explain your reasons.

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$\qquad$
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$\qquad$
5. Write an equation that fits the non-linear function.

Show your work.

