T.2.3 - The Inverse Function		
	Math SL1- Santowski	
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## **Opening Exercise**

- On a grid, graph the points (-10,10), (0,30), (10,50), (20,70), (30,90), (40,110)
- Determine a mathematical relationship between x & y
- Prepare a mapping diagram using the same points
- Graph the line y = x on the same graph









## Opening Exercise - Revisited

- On a grid, graph the points (-10,10), (0,30), (10,50), (20,70), (30,90), (40,110)
- Determine a mathematical relationship between  $x \And y$
- Prepare a mapping diagram using the same points
- Graph the line y = x on the same graph
- Now, list the ordered pairs that are part of the "reverse" process or rather the inverse → ......
- Then graph these points of the inverse relation
- Then determine the mathematical relationship between x & y



















OCF.02.3 - The Inverse Function





- Let f(x) = 2x 7.
- Determine the inverse of y = f(x)
- Graph both functions on a grid/graph
- Fold the grid/graph upon the line y = x. What do you observe? Why?
- What transformation are we considering in this scenario?
- Now compose as follows  $fof^{-1}(x)$  and  $f^{-1}of(x)$ . What do you notice?

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How is this related to our graph folding exercise?

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