Unit 3: Relations, functions, and graphs (With focus on linear functions and lines)
(Chapter 3, page 104)


|  | Plot an example of a relation, a function, and one-to-one function. <br> Relation <br> Function <br> One-to-one function <br> Domain: <br> Range: <br> Vertical line test: <br> Horizontal line test: |
| :---: | :---: |
|  | Function composition Definition <br> Page 149 <br> $f(x)=x^{2} \quad ; \quad g(x)=x+2$  <br> $f(g(x))=\ldots \quad$ (Hint: $f(■)=\mathbf{■}^{2}$, and $\left.\square=x+2\right)$  <br> $g(f(x))=\ldots$  <br> Notation: $f(g(x))=f \circ g$  <br> --- Example: Put an example of function composition  |




