

5.5 Graphs of Functions and Relations

* The of a function is the set of values attributed to the variable (the horizontal axis).

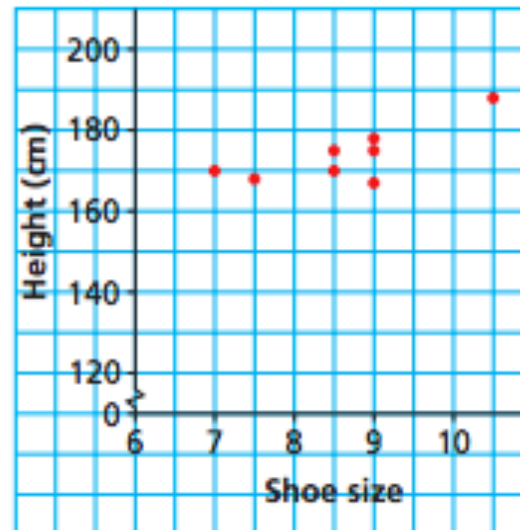
* The of a function is the set of values attributed to the variable (the horizontal axis).

* When the domain of a function is restricted to a set of values, the points on its graph are

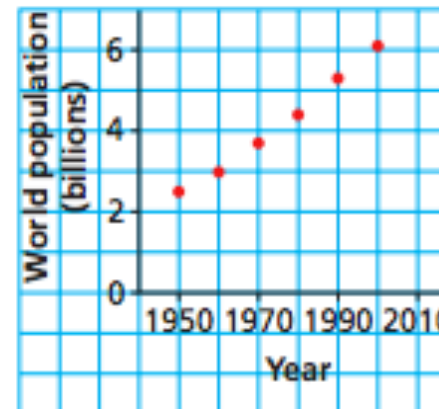
* The Vertical Line Test (VLT): when considering the graph of a the VLT will be satisfied. To satisfy the VLT, a will never cross/touch the graph of the function at

ex. Determine the domain and range and indicate whether each is a function or not.

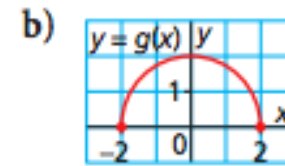
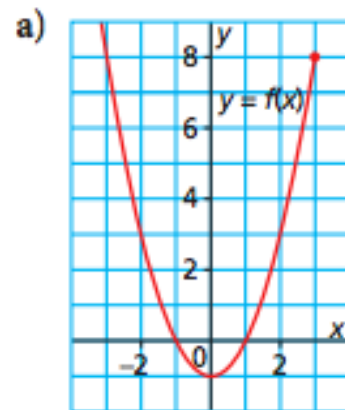
a) Height against Shoe Size



b) World Population



ex. Determine the domain and range of the graph of each function.



ex. Here is a graph of the function $f(x) = -3x + 7$.

- Determine the range value when the domain value is -2 .
- Determine the domain value when the range value is 4 .

