

$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ & \searrow & \downarrow g \\ & & C \end{array}$$

A commutative diagram showing a mapping from set A to set B via function f , and a mapping from set B to set C via function g . The composition of these functions, $g \circ f$, is shown as a direct mapping from A to C .