

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

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  $C$ .