

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

The diagram illustrates a commutative triangle of functions. It consists of three sets: A , B , and C . A function f maps A to B , represented by a horizontal arrow. A function g maps B to C , represented by a vertical arrow. A function $g \circ f$ maps A directly to C , represented by a diagonal arrow. The composition $g \circ f$ is the result of applying f followed by g .