Definition

Let $f: A \rightarrow B$ and $g: B \rightarrow C$. Then we define the function

 $g \circ f \colon A \to C$

as the composition of f and g, and it takes the value

 $(g \circ f)(x) = g(f(x)).$

$$f: A \rightarrow B, g: B \rightarrow C$$

$$Then gef: A \rightarrow C$$

$$\chi \mapsto g(f(x)).$$

$$A \xrightarrow{f} B \xrightarrow{g} C$$

$$gef.$$

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