Compositions and inverses

Question 1 [5 points]

Give the definition of the composition of two functions.

Let $A$, $B$, and $C$ be sets and let $f: A \rightarrow B$ and $g: B \rightarrow C$ be functions. The composition of $g$ with $f$, denoted $g \circ f$, is a function $g \circ f: A \rightarrow C$ such that for every $x \in A$,

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