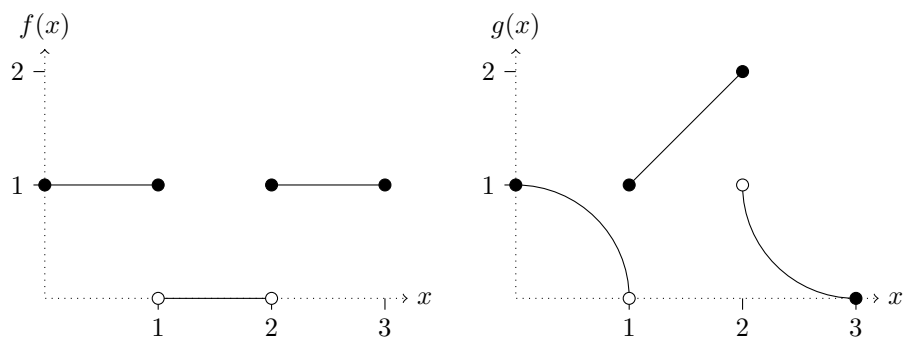


Worksheet for Math 111-02, 9/12/17 (introduction to limits)

Consider the following two functions, $f(x)$ and $g(x)$.



(a) For which values of c between 1 and 3 does $\lim_{x \rightarrow c} f(x)$ exist? What about $\lim_{x \rightarrow c} g(x)$?

(b) Draw the graph of the sum $f(x) + g(x)$. For which values of c between 1 and 3 does $\lim_{x \rightarrow c} (f(x) + g(x))$ exist?

(c) Draw the graph of the product $f(x)g(x)$. For which values of c between 1 and 3 does $\lim_{x \rightarrow c} f(x)g(x)$ exist?