

Worksheet 9/6/2024

1) Let $f(x) = \frac{1}{x}$ and $g(x) = \sqrt{x+1}$. Find the following composite functions and their domains.

a) $f \circ f$

b) $g \circ g$

c) $f \circ g$

2) a) Graph the function $f(x) = \frac{1}{x}$

b) Use transformation to graph the function $g(x) = \frac{1}{x-2}$

c) Use transformation to graph the function $g(x) = \frac{1}{x} - 3$

d) Use transformation to graph the function $g(x) = \frac{1}{x+5}$

e) Use transformation to graph the function $g(x) = \frac{2}{x-1}$