Express the function in the form $f \circ g$.¹

$$G(x) = \sqrt[3]{\frac{x}{x+1}}$$

Note that $\frac{x}{x+1}$ is "inside" the cube root.

So
$$g(x) = \frac{x}{x+1}$$
 and $f(x) = \sqrt[3]{x}$. Then

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

$$= f\left(\frac{x}{x+1}\right)$$

$$= \sqrt[3]{\frac{x}{x+1}}$$

As we begin to learn the concepts and calculations of calculus, the ability to see how a function is composed from other functions is very important.

¹Stewart, Calculus, Early Transcendentals, p. 44, #36.