$$
\begin{aligned}
\text { Let } g(t) & =\csc t \text { and } f(t)=\frac{t}{3+t} \text {. Then }(f \circ g)(t)=f(g(t))=f(\csc t)= \\
\frac{\csc t}{3+\csc t} & =u(t) .
\end{aligned}
$$

