Solution of Exercise 2.22. We have

$$
\begin{aligned}
T(g \circ f)(x, h) & =((g \circ f)(x), D(g \circ f)(x) h)=(g(f(x)), D g(f(x))(D f(x) h)) \\
& =T g(f(x), D f(x) h)=T g(T f(x, h))=(T g \circ T f)(x, h)
\end{aligned}
$$

