1. (1 point) Consider the set of functions $f: \mathbb{R} \to \mathbb{R}$ with the usual notion of addition and multiplication (i.e. (f+g)(x) = f(x) + g(x) and (fg)(x) = f(x)g(x)). True or false, this set is a field.

2. (1 point) Suppose F is a field and $a,b,c,d\in \mathbb{F}.$ True or false,

$$((ab)c)d=(ba)(cd)$$