8. Consider any order that turns $\mathbb C$ into an ordered field. We have that $i^2=-1$, which according to property 1.17 (ii) of ordered fields implies i<0 since $i\neq 0$. Proposition 1.18 (a) implies that -i>0. Applying 1.17 (ii), this time with x=-i and y=-i, together with proposition 1.16 (d) gives us

$$(-i) \cdot (-i) = i^2 = -1 < 0.$$

But this is a contradiction since we assumed \mathbb{C} is an ordered field where the condition of 1.17 (ii) must be satisfied.