

**4.17** Show that  $\text{Poss}|U$  is a possibility measure if  $\text{Poss}(U) > 0$  and is in fact the largest possibility measure satisfying CPoss1–4. More precisely, show that if  $\text{Poss}(U) > 0$  then  $\text{Poss}|U$  satisfies CPoss1–4 and show that if  $\text{Poss}||U$  is another definition of conditional possibility that satisfies CPoss1–4 such that  $\text{Poss}||W = \text{Poss}$ , then  $\text{Poss}|U(V) \geq \text{Poss}||U(V)$  for all  $V \subseteq W$ .