

(PB0102) It is true that  $R$  implies  $P$ . Here's why. Let's assume  $R$  is true (with the goal of trying to deduce that  $P$  is true). Can  $Q$  be false? No! For if  $Q$  is false then we know from the question that  $R$  will also be false, but we're assuming  $R$  is true. So  $Q$  must be true as well. And then again from the question,  $P$  must be true. So if  $R$  is true then  $P$  is true too.