

This is your quest:

1. Give a good proof of Rudin's inclusion

$$(A_1 \cup A_2) - (B_1 \cup B_2) \subset (A_1 - B_1) \cup (A_2 - B_2)$$

2. Give a good proof of any one of the inclusions marked (26) in Rudin's Chapter 11, without using any of the others.