

1. Carothers 16.40
2. Carothers 16.42
3. Carothers 16.44
4. Carothers 16.45
5. Carothers 16.53
6. Carothers 16.58
7. Carothers 16.64
8. Suppose $E \subseteq \mathbb{R}$. Prove that E is measurable if and only if for any $\varepsilon > 0$ there is an open set G and a closed set F such that $F \subseteq E \subseteq G$ and $m^*(G \setminus F) < \varepsilon$. (This is your text's definition of measurability.)
9. Carothers 16.73
10. Carothers 16.74
11. Carothers 16.75