

1. Carothers 17.35 (Solution by David Maxwell)

2. Carothers 17.36 (Solution by Lyman Gilispie)

3. Carothers 17.43 (Solution by TJ Barry)

(The problem suggests you need to modify the proof of 17.20. Don't. Cite other results for a quick proof.)

4. Carothers 17.44 (Solution by Will Mitchell)

5. Carothers 17.45 (Solution by Slava Garayshin)

If you took the graduate topology class, you must first prove problem 17.41 in one line by citing a famous topological result. Otherwise you may assume the result of problem 17.41.

6. Carothers 18.1 (Solution by Lyman Gilispie)

7. Carothers 18.3 (Solution by Slava Garayshin)

8. Carothers 18.4 (Solution by TJ Barry)

9. Carothers 18.6 (Solution by Will Mitchell)

10. Carothers 18.9 (Solution by David Maxwell)