



COMSATS Institute of Information Technology, Islamabad
Department of Mathematics
Excercise Set 4

Program: MS/PhD
Semester:

Instructor: Dr. M Saeed Akram
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1. Q #: 7,8, 11. [Exc 1.1, Kreyszig]
2. Q #: 1, 4, 5. [Exc 1.2, Kreyszig]
3. Q #: 2, 4, 6. [Exc 1.3, Kreyszig]
4. Q #: 2, 6, 8. [Exc 1.4, Kreyszig]
5. Q #: 11, 12. [Exc 1.5, Kreyszig]
6. The space l^p with $1 \leq P < \infty$ is separable.[1.3-10, Kreyszig]
7. The spaces \mathbb{R}^n , \mathbb{C}^n , l^p , l^∞ , c [1.5-3, Kreyszig], l^p with $1 \leq P < \infty$, $C[a, b]$ are complete.[1.5, Kreyszig]