

## MA651 Topology. Questions for quizzes 4.

1. Definitions of continuous maps and their equivalence (Definitions: 25.1, 25.2, 28.8, 28.9  
Theorem 25.1, Proposition 28.2 (without proofs))
2. Closed and open map (Definition 26.1)
3. Homeomorphism (Definition 27.1)
4. Embedding map (Definition 27.2)
5. Filter (Definition 28.1)
6. Natural filter on a set (Definition 28.2)
7. Filter of sections (Definition 28.3)
8. Limit point of a filter (Definition 28.4)
9. Point adherent to a filter (Definition 28.5)
10. Relation between adherent and limit points (Theorem 28.1 without proof)