

## MA651 Topology. Questions for quizzes 1.

1. Theorem 3.2 (De Morgan) *with proof!*
2. Cartesian product (Definition 4.2)
3. Family of sets (Definition 5.1)
4. Power set (Definition 6.1)
5. Map (Definition 7.1)
6. Image. Inverse image. Induced map (Definition 7.2)
7. Surjective, injective, and bijective maps (see p.11 of the notes)
8. Binary relation (Definition 8.1)
9. Equivalence relation (Definition 8.2)
10. Quotient set (Definition 8.3)
11. Axiom of Choice (Axiom 9.11)