MA651 Topology. Questions for quizzes 5.

1. Cartesian product topology (Definition 29.1)

2. Slice in product topology (Definition 30.1)

3. Equivalent definitions of a connected topological space (Definition 31.1 and Proposition 31.1)

4. Component (Definition 33.1)

5. Locally connected space (Definition 34.1)

6. Path (see page 11 of the notes)

7. Path-connected space (Definition 35.1)