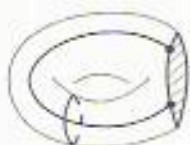


Question 8 — 15 marks

For each of the following surfaces, add any vertices or edges you feel are necessary to obtain a subdivision. State which, if any, of the rules on page 27 of *Geometric Topology Unit 1* were not satisfied by the original figure. Clearly label each vertex and edge that you add.

(i)



[3]

(ii)



[7]

(iii)



[5]

