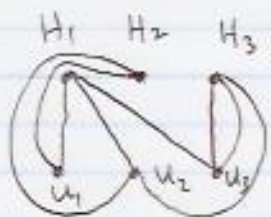


## §9.1 Homework solutions

1), 2) [BB]

3) Yes



5 a) [BB] b) 7 edges, 7 vertices so beta index =  $\frac{7}{7} = 1$

6) See [BB]. Remark: The graph representing any such floor plan with vertices representing adjoining rooms must be planar. Why?