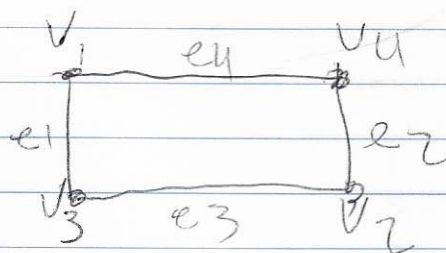
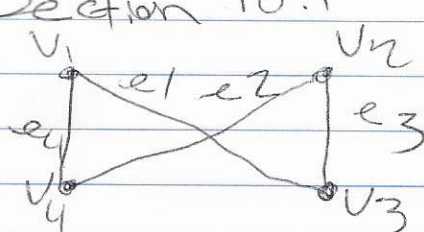


# Section 10.1

6)



14)

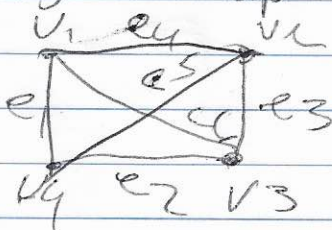
Graph with 4  
of degree 1, 1, 1, 4

Therefore total degree of this graph =  
 $1+1+1+4=7$  which is odd

The total degree of a graph ~~must~~ must  
be even, so this graph doesn't exist!

27)

6) Group of 4 people, each with 3 friends



yes! represent each  
person by a vertex &  
each friendship with an edge

13)

Doesn't have an euler circuit

A graph has an euler circuit if and only  
if  $G$  is connected & every vertex  
has a positive even degree

20)

There is no euler path from  $u$  to  $w$   
because  $u$  &  $w$  have odd degrees