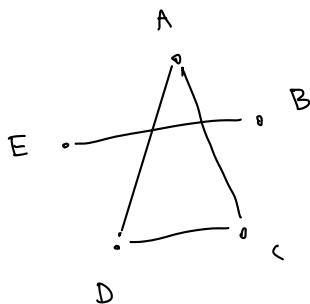


#1, 2, 3c, 5

#1

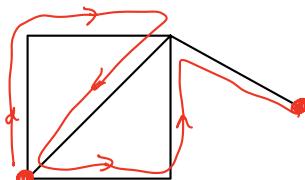
It is not connected, since there is no path from A to B.

#2

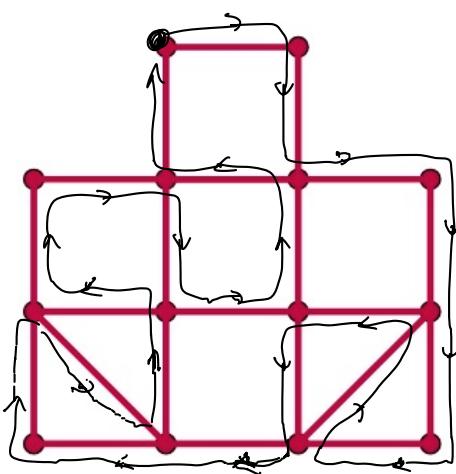
a. verts: $\{A, B, C, D, E\}$
 edges: $\{(A, B), (A, C), (A, D), (B, C), (C, D), (C, E)\}$

b. NO - some verts have odd degree.

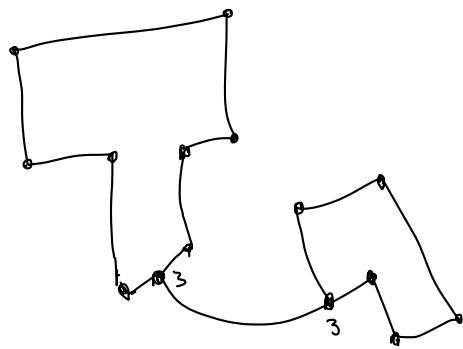
c. Yes!



#3c has an Euler circuit.



#5



a This has no Euler circuit, but it does have an Euler path.

b OK honey: We can walk along all these streets without repeating any, but we won't be able to end up where we started! Daddy loves you!