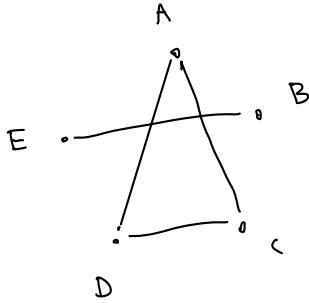


# Math 1015 HW #9

#1, 2, 3c, 5

#1



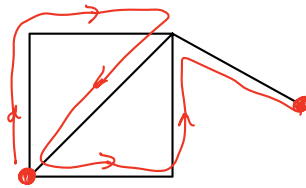
It is not connected, since there's no path from A to B.

#2

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

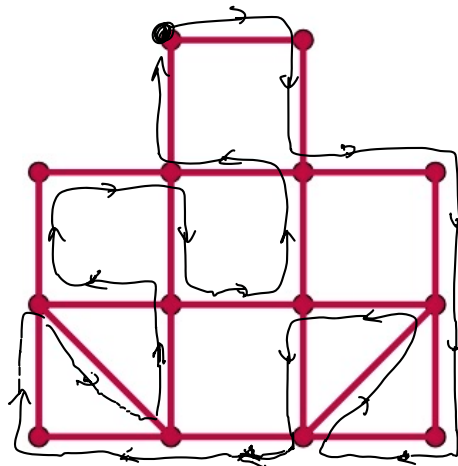
b. NO - some vertices have odd degree.

c. Yes!

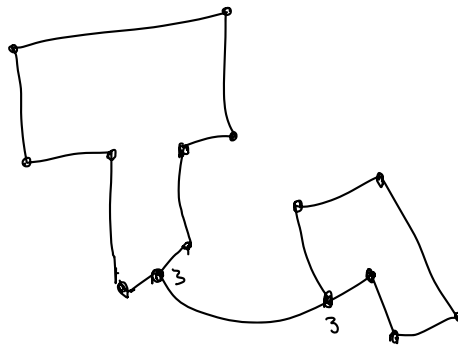


#3c

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!