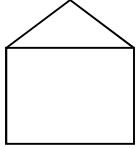


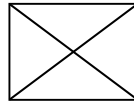
Chapter 5: Euler Circuits and Euler Paths

1. The following are graph models; determine if the graph contains an Euler Circuit, Euler Path or neither. Using Euler's Theorems, state your exact reason. (Because you could or could not draw one is not sufficient justification.)

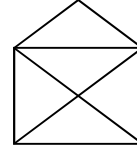
A



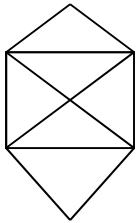
B



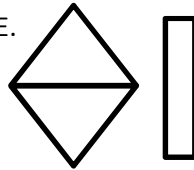
C



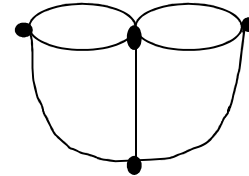
D



E.



F.



2. The following graph model represents the streets that a guard must walk each night. The graph does not have an Euler Circuit or Euler Path, why?

He still needs to walk the streets, so he must repeat some streets. Eulerize the graph and show a possible route for the guard. *Goal is to find the least amount of repeated streets.*

