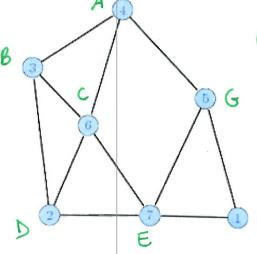
Instructions: Show all work. Use exact answers unless otherwise directed to round.

1. Determine if the following graph contains a Hamilton circuit or path (or neither).



ges, Circuit exists

Sollow alphabetically then

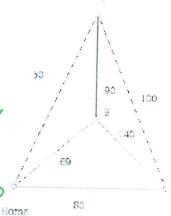
back to A

2. Using the K_4 graph below, use the indicated algorithms to find (or approximate) the minimal cost Hamilton circuit. Be sure to clearly state the cost of the final graph.

a. Brute Force

ABCDA = 140+90+50+80 = 360

Cheaport 9 ADBC A=80+69+90+100: 339 ACBB A = 100+50+69+140:359



b. Nearest Neighbor starting from Home

DC BAD 50+90+140+80 = 360

c. Cheapest Link/Sorted Edges

69

3. Draw an example of a K_8 graph.

