MAT 3770 — TSP Worksheet

Name:

In Exercises 1–4, use the brute force algorithm to find a minimum Hamilton circuit for the graph from among those listed. Put a star (\star) next to the best one(s) found in each exercise.





Exercise 2.

Exercise 3.



CEGFDC



In exercises 5–8, use the nearest neighbor algorithm to determine an approximate solution to the Traveling Salesperson Problem.

Exercise 5.



Start Pt	Circuit	weight
А		
В		
С		
D		

Exercise 6.

ACEDBA



Start Pt	Circuit	weight
А		
В		
С		
D		
Е		



- 1. Which of the circuits that you found in part in Exercises 7 & 8 gives the best solution to the problem?
 - 7:
- 8:
- 2. Just by looking carefully at the graph, find a Hamilton circuit which has lower total weight than any of the circuits you found in Exercise 8.

