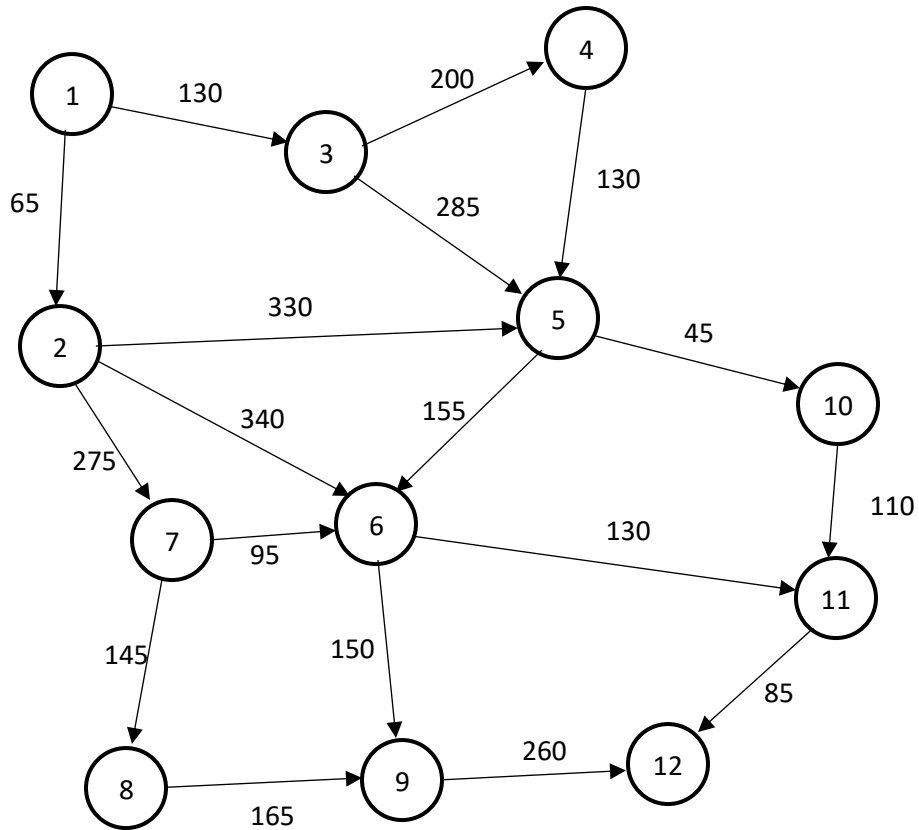
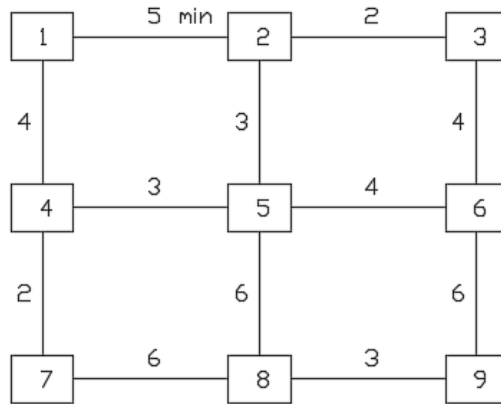


CE 45000: Transport Policy and Planning
 Due Tuesday, October 22, 2019

Problem 1: Can you go node 1 to node 12 in 10 hours? Prove. Use Minimum Path Algorithm.
 (30 points)



Problem 2: Determine the minimum path for node 1 in the following figure. Sketch the final tree. Also, determine the number of trips on each link using the minimum path trips shown in table below. (50 points)



From	To	Trips
1	2	50
	3	75
	4	80
	5	100
	6	125
	7	60
	8	30
	9	90

Problem 3: Answer following questions and provide supporting documents or source: (20 points)

1. Provide the study area limits for a shopping center of 150,000 sq. ft. and a fast-food restaurant?
2. What is the guideline in terms of trips whether you need to conduct a traffic impact study or not?
3. What is approximate horizon years for a development greater than 1,000 peak-hour trips?
4. How do you identify that there is an impact at an intersection due to a new development?