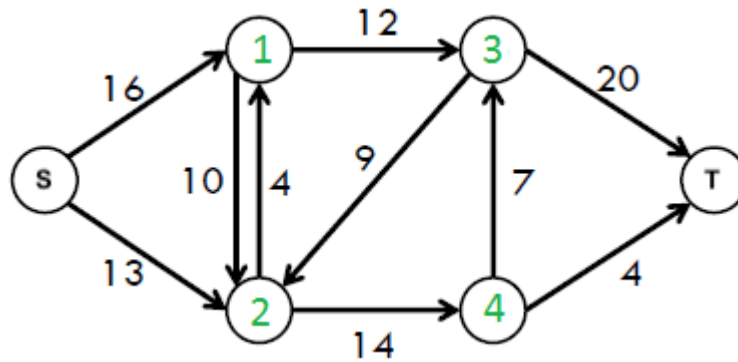# CS140 - Group Assignment 10
Due: Friday, November 15 at 10pm

1. The max-flow graphs must have certain constraints. How would you verify these constraints? Specifically, how would you verify that every vertex is on a path from s to t? Try to come up with a solution that is as fast as possible (you can do it in linear time, i.e., $O(V + E)$).

2. Calculate the max flow using the Ford-Fulkerson algorithm on the following graph:

3. Write three potential T/F questions for next week's midterm. Include the correct answer along with a brief (1 sentence) justification.