Practice worksheet | Matrices and networks

Maximum-flow models

Name: _____ Date: _____

6 questions | 12 marks

1. A route S→A→T has capacities 9 and 5 L/s. What is its largest flow? [2 marks]

2. Two edge-disjoint routes have bottlenecks 4 and 7 vehicles/min. Find their total possible flow. [2 marks]

3. A junction receives 6 and 3 L/s. One outgoing edge carries 4. Find the other outflow. [2 marks]

4. A feasible flow equals 18 and a cut has capacity 18. What follows? [2 marks]

5. An edge has capacity 8 vehicles/min but assigned flow 10. Is it feasible? [2 marks]

6. A cut has forward capacities 7 and 5 and a backward capacity 4. Find its forward capacity. [2 marks]