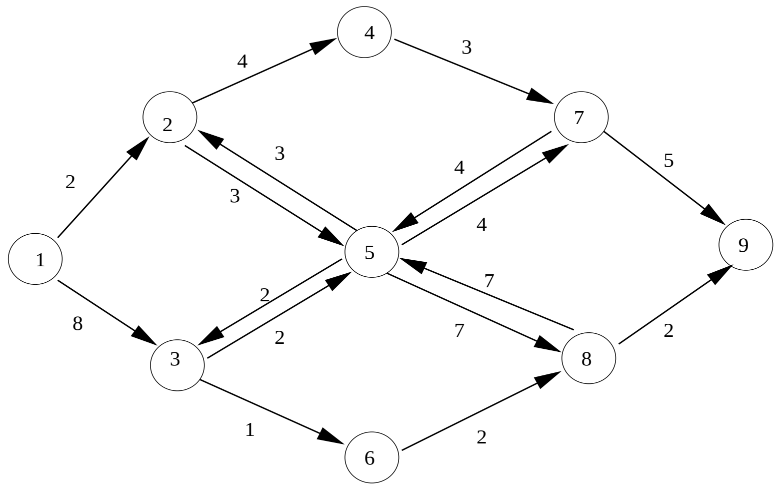
EECS 509 – WINTER 1997

Problem Set #9 – Assigned Mar. 27 – Due in class Apr. 3

1. Find a shortest path from node 1 to node 9 in the network shown below using Dijkstra's algorithm.



2. Consider the network shown below together with the heuristic function $h(\cdot)$ with following values:

n	1	2	3	4	5	6	7	8	9	10
$h(n)$	34	32	28	11	2	14	24	10	6	0

   (a) Find a "short path" from node 1 to node 10 using the A^* algorithm with the above heuristic function.

   (b) Does your path achieve the shortest distance? Explain.