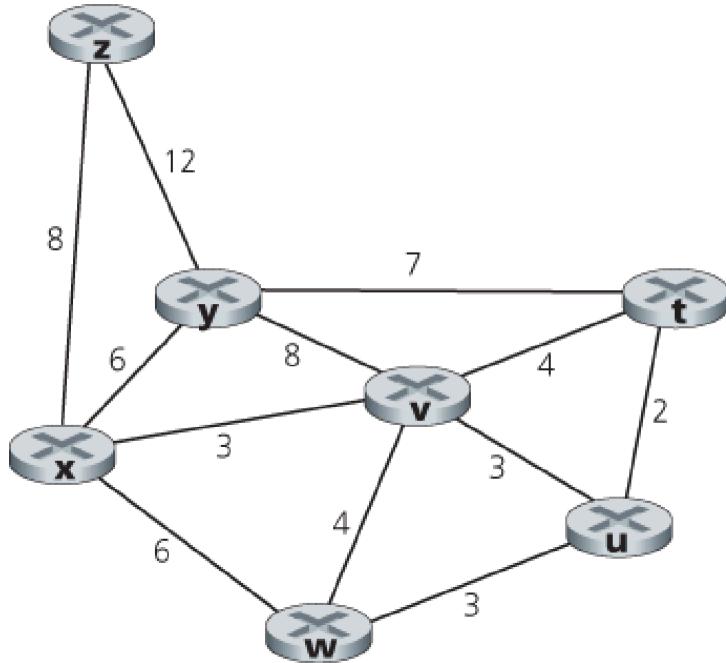


# Homework on Routing Algorithm



1. Consider the following network. With the indicated link costs, use Dijkstra's shortest-path algorithm to compute the shortest path from  $x$  to all network nodes. Show how the algorithm works by computing a table, do the following:
  2. a. Compute the shortest path from  $t$  to all network nodes.
  3. b. Compute the shortest path from  $u$  to all network nodes.
  4. c. Compute the shortest path from  $v$  to all network nodes.
  5. d. Compute the shortest path from  $w$  to all network nodes.
  6. e. Compute the shortest path from  $y$  to all network nodes.
  7. f. Compute the shortest path from  $z$  to all network nodes.