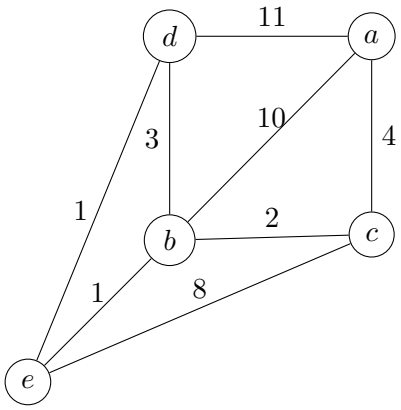
Algorithms Worksheet 3

This week there are two question each worth four marks, there are two marks for attendance.

1. Us Dijkstra's algorithm to find the shortest path from d to c in



2. In chess a knight moves three squares in one cardinal direction followed by one square in a perpendicular direction. In the chess board below the knight is in the bottom left-hand position, the two squares that it can reach in one move are marked '1', what is the least number of moves that will take it to the square marked $\times$?