Common heusistic hunctions: D'Euclidean distance: $H(x_n, y_n) = J(x_n - x_g)^2 + (y_n - y_g)^2$ 2) Manhattan distance: $H(x_n, y_n) = |x_n - x_g| + |y_n - y_g|$

A* algorithm – pseudo code

- For each node n in the graph
 o n.f = Infinity, n.g = Infinity
- Create an empty list.
- start.g = 0, start.f = H(start) add start to list.
- While list not empty
 - Let current = node in the list with the smallest f value, remove current from list
 - o If (current == goal node) report success
 - o For each node, n that is adjacent to current

If (n.g > (current.g + cost of edge from n to current))
n.g = current.g + cost of edge from n to current
n.f = n.g + H(n)

n.parent = current add n to list if it isn't there already