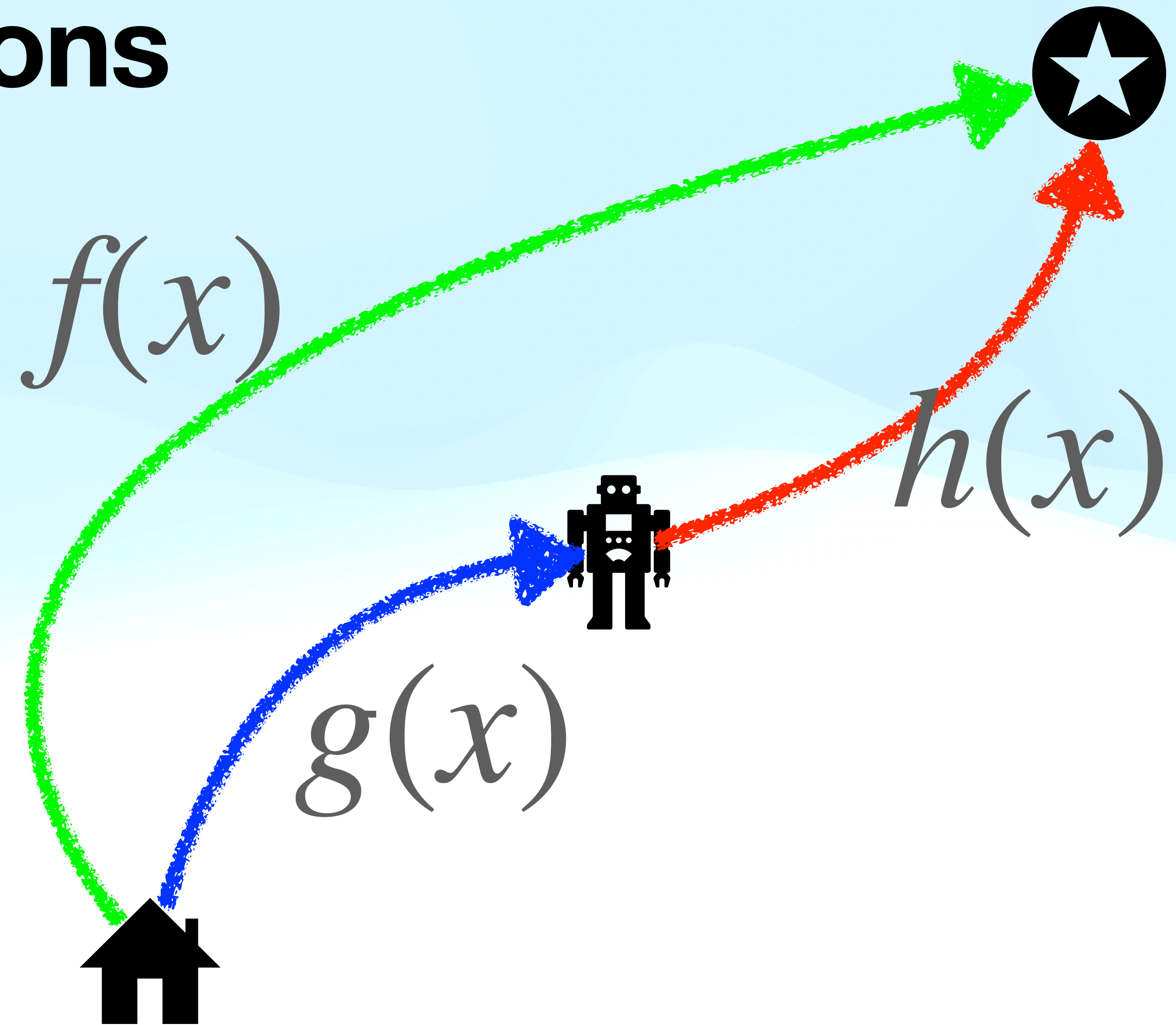


# Minimal cost solutions

- Uninformed search
  - Uniform cost search
- Informed Search
  - Greedy search
  - $A^*$  search



# Uniform Cost Search (using $g$ )

## Important aspect

- The order of the nodes in fringe **Smallest**  $g(x)$
- Should the same state be generated?
  - Same as the EXPANDED states **NO (reached)**
  - Same as the states IN fringe **Replace if lower**  $g(x)$  why?
- When to report the goal?
  - When generated? **No (why)**
  - When expanded? **Yes**

