

☐ True

b) False

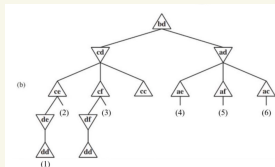
②

③

b) Yes, given that the heuristic function is admissible and the prompt is possible.

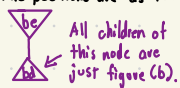
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④



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c) Yes, as since $t_p = -|m_t|$, and m_t only increases as the game continues, t_p will continuously decrease.

d.) Node (5) & (6) do not need expansion, as they will all be less than -9, and as such can be pruned.