Discussion Questions

Probabilistic Roadmaps (PRMs)

1. Summarize the PRM algorithm. Use pseudo-code to help your explanation.
2. What is the complexity of roadmap construction for n nodes? What is the complexity of querying a roadmap of n nodes?
3. Summarize the results of the experiments performed in the PRM journal paper.
4. What are the major strengths and weaknesses of PRMs?
5. How might you address some of the difficulties of PRMs?
6. In what situation would you prefer RRT over PRM?