Problem 1

Answer: the nodes are 1.4142135623730951 apart

Link: <https://github.com/rattytoaster/michael_englert_unmanned_systems/blob/master/week%202/hw2_problem1_englert.py>

Problem 2:

Answer: the position is valid

A graph with blue dots and red dots

Description automatically generated

Link: <https://github.com/rattytoaster/michael_englert_unmanned_systems/blob/master/week%202/hw2_problem2_englert.py>

Problem 3:

A diagram of a graph

Description automatically generated

Link: <https://github.com/rattytoaster/michael_englert_unmanned_systems/blob/master/week%202/hw2_problem3_englert.py>

Problem 4:

Start: 1,4

Answer:

A graph with red and blue circles and a line

Description automatically generated

Link: https://github.com/rattytoaster/michael\_englert\_unmanned\_systems/blob/master/week%202/hw2\_problem4\_englert.py