

Problem of the Week

Week 12, due November 18th 11.59pm

NAME: _____

NAU Email: _____

Instructor name (for credit): _____

Please write clean, neat and complete solutions to the problem in order to receive full credit. Your job is to convince me, or really anybody who reads this document, that you understand the problem and are able to communicate what you are thinking about. Please submit your solutions through Gradescope(<https://www.gradescope.com/>) by the indicated deadline. You might need to create an account with your NAU email. To enroll into the Problem of the Week course use entry code: NYZ56P. Good luck and have fun!

PROBLEM. Spider Bobby

Spider Bobby lives on the surface of a cube of side length a . He wants to travel from one corner of the cube to the diagonally opposite corner that is he wants to go from point A to point D as shown in the picture. How much distance does he have to travel at a minimum?

