

# Optimization

# Discussion

Discuss in your Group the following scenario

Imagine you are at the beach close to the water and you are hungry. There is a taco truck next to the road further up the beach (there is a paved sidewalk next to the road). If you want to get to the truck as quickly as possible, which way would you head?



## Discussion

Discuss in your group:

How can we simulate walking on sand?



## Outside activity:

- Each group collect supplies
- Head outside to front of the outpost.
- Act out three different walking paths and take measurements (see handout)

Back in the classroom: Find optimal solution

Back outside: Try out optimal solutions

# Wrap up discussion

## Discuss in your group:

- How did the predicted solution compare to the actual data collected?
- If the times are off, what caused the discrepancies? What types of errors contributed?
- What did you find interesting? Unexpected?
- Where could a similar situation come up? Brainstorm with your group.

# Exit Survey

Take a couple of minutes and answer the **Optimization Lesson Feedback survey** posted on canvas. You can find the survey in our class course under “Assignments”.

Thank you all for participating