

Problem 4.3

Study the price quotes from the two companies. The following questions will help you analyze the information.

Part A

Complete the table below showing the costs for renting bikes from each company.

Number of bikes

	5	10	15	20	25	30	35	40
Cycle The Coast								
Speedy Wheels								

Part B

Plot the (number of bikes, rental cost) data for both companies on the graph below.

Use a different color or plotting symbol for each company.

Part C

For each company, write an equation relating the number of bikes rented to the total cost. Tell what the letter variables in your equation represent.

Cycle The Coast

Speedy Wheels

Part D

Enter your equations into your calculator as Y1 and Y2. Graph both equations in the same window. Compare the calculator graph with the graph you made by hand.

Similarities

Differences

Part E

Is there a number of bikes for which both companies charge the same rental fee?

How can the graph help you find the answer?

Part F

How does the graph show the number of bikes for which Cycle the Coast is the most economical?

How does it show the number of bikes for which Speedy Wheels offers the better deal?

Part G

What advice would you give Ocean Bike Tours about which company to rent bikes from? Use your analysis of the two plans to justify your advice.