

- a. Can you fit a line to the data? Explain.
- **b.** How could you model the data using more than one line? *Explain* the steps you could take.

PROBLEM SOLVING

EXAMPLE 1 on p. 335 for Ex. 18 **18. SAILBOATS** Your school's sailing club wants to buy a sailboat. The table shows the lengths and costs of sailboats.

Length (fe	et)	11	12	14	14	16	22	23
Cost (dolla	irs)	600	500	1900	1700	3500	6500	6000

- **a.** Make a scatter plot of the data. Let *x* represent the length of the sailboat. Let *y* represent the cost of the sailboat.
- **b.** Find an equation that models the cost (in dollars) of a sailboat as a function of its length (in feet).
- **c.** Approximate the cost of a sailboat that is 20 feet long.

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