

c. Which cell phone plan is the best deal for Gertrude? Defend your answer with specific examples.

2. Sadie is saving her money to buy a new pony, which costs \$600. She has already saved \$75. She earns \$50 per week working at the stables and wonders how many weeks it will take to earn enough for a pony of her own.

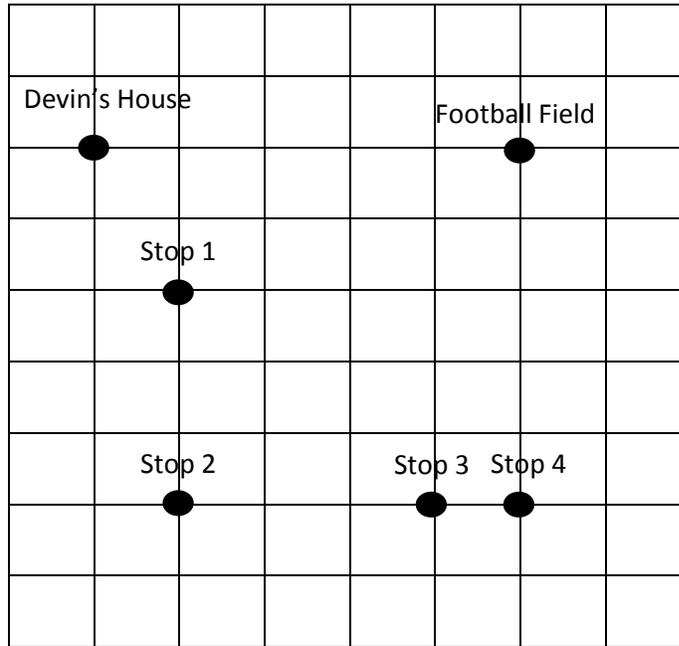
a. Make a table showing the week number, W , and total savings, in dollars, S , in Sadie’s savings account.

| | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Number of Weeks | | | | | | | | | | | | |
| Total Savings | | | | | | | | | | | | |

b. Show the relationship between the number of weeks and Sadie’s savings using an expression.

c. How many weeks will Sadie have to work to earn enough to buy the pony?

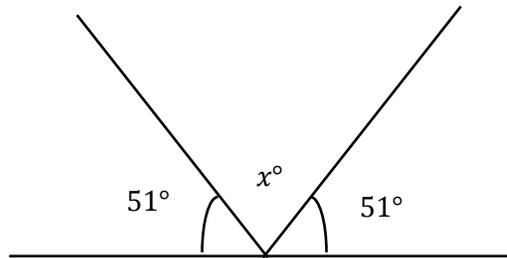
4. Devin’s football team carools for practice every week. This week is his parents’ turn to pick up team members and take them to the football field. While still staying on the roads, Devin’s parents always take the shortest route in order to save gasoline. Below is a map of their travels. Each gridline represents a street and the same distance.



Devin’s father checks his mileage and notices that he drove 18 miles between his house and Stop 3.

- Create an equation and determine the amount of miles each gridline represents.
- Using this information, determine how many total miles Devin’s father will travel from home to the football field, assuming he made every stop. Explain how you determined the answer.
- At the end of practice, Devin’s father dropped off team members at each stop and went back home. How many miles did Devin’s father travel all together?

5. For a science experiment, Kenneth reflects a beam off a mirror. He is measuring the missing angle created when the light reflects off the mirror. (Note: Figure is not drawn to scale.)



Use an equation to determine the missing angle, labeled x in the diagram.