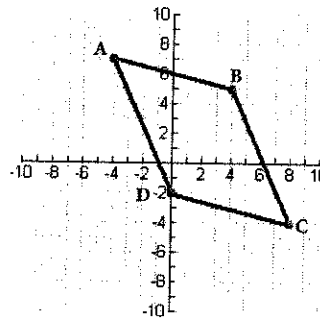


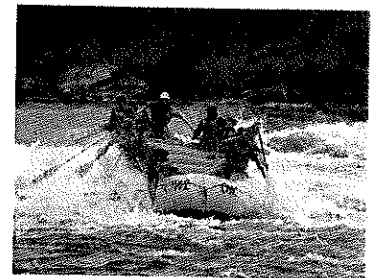


- 21.** At 2 weeks old, Bob's baby sister weighed 9 pounds. When she was 8 weeks old, she weighed 12 pounds. Let x represent how old the baby is in weeks and y represent the baby's weight in pounds.
- Write two ordered pairs that use the data about Bob's sister.
 - Find the equation of the line that goes through these two points.
 - If Bob's sister continues to grow at this rate, how much will she weigh when she is 20 weeks old? Is this reasonable? Why or why not?

- 22.** Four line segments make the four sides of a quadrilateral on the coordinate plane below. Find the equations of the lines containing each side: \overline{AB} , \overline{BC} , \overline{CD} , \overline{AD} . Are there any similarities in the equations for lines \overline{AB} and \overline{CD} ? How about \overline{BC} and \overline{AD} ?



- 23.** A raft rental company on the Gauley River rents rafts for a set fee plus an additional charge per hour. Francis asked two different people how many hours they had rented their rafts for and how much it cost. One rented a raft for 6 hours and paid \$32. Another rented a raft for 11 hours and paid \$47. Let x represent the length of time in hours a raft is rented for and let y represent the total cost.

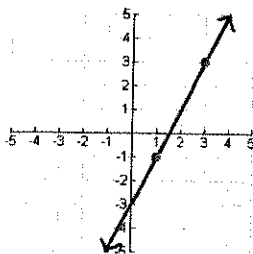


- What is the linear equation that represents the data Francis collected?
- What number in the linear equation represents the amount of the set fee?
- What is the real-world meaning of the slope in this equation?
- How much will someone pay for a raft rental from this company if he only keeps the raft for 4 hours? Show all work necessary to justify your answer.

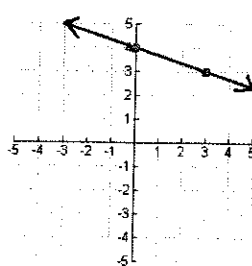
REVIEW

Write the linear equation for each graph in slope-intercept form.

24.



25.



26.

