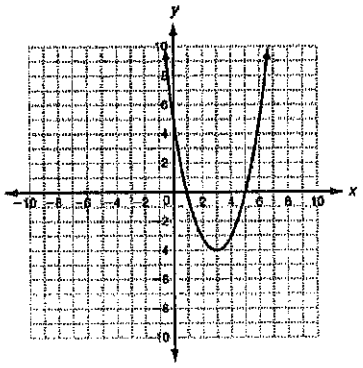
Name _____ Date _____ Class _____

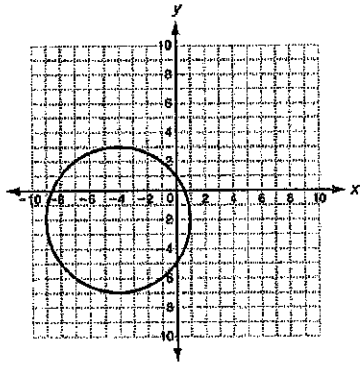
LESSON 5-1

Practice B

Identifying Linear Functions

Identify whether each graph represents a function. Explain. If the graph does represent a function, is the function linear?

1. 

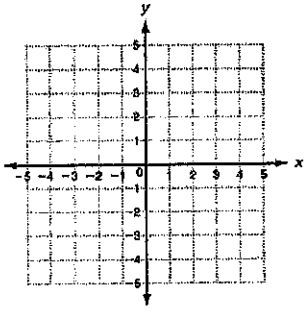
2. 

3. Which set of ordered pairs satisfies a linear function? Explain.

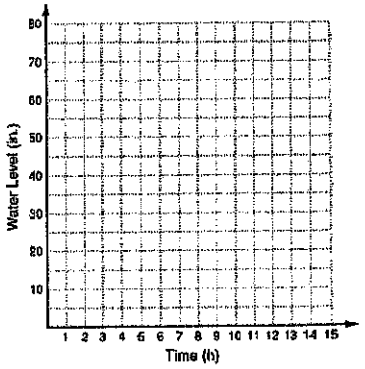
Set A: {(5, 1), (4, 4), (3, 9), (2, 16), (1, 25)}

Set B: {(1, –5), (2, –3), (3, –1), (4, 1), (5, 3)}

4. Write $y = -2x$ in standard form. Then graph the function.



5. In 2005, the Shabelle River in Somalia rose an estimated 5.25 inches every hour for 15 hours. The increase in water level is represented by the function $f(x) = 5.25x$, where x is the number of hours. Graph this function and give its domain and range.



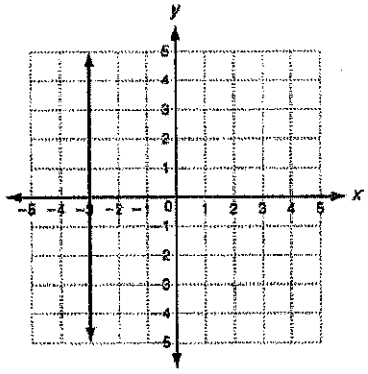
Name _____ Date _____ Class _____

LESSON 5-1

Practice C

Identifying Linear Functions

Identify whether each graph represents a function. Explain. If the graph does represent a function, is the function linear?

1. 

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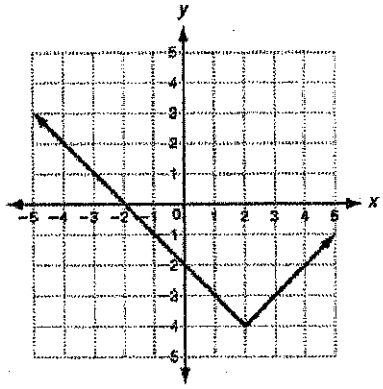
2. 

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3. Which of the sets of ordered pairs satisfies a linear function? Explain.

Set A: {(–10, 3), (–9.9, 4.5), (–9.8, 6), (–9.7, 7.5)} _____

Set B: {(1, 5), (2, 10), (4, 15), (8, 20), (16, 25)} _____

4. Write $y = -x + 3$ in standard form. Then graph the function.

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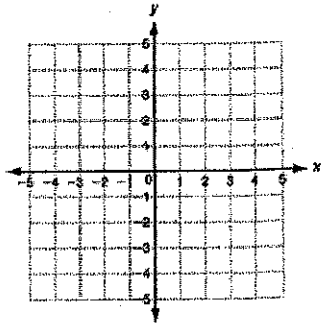

5. A campground charges \$30 for 2 people plus \$4 for each additional person. The total amount owed is given by $f(x) = 30 + 4x$ where x is the number of additional people. Graph this function and give its domain and range.

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