



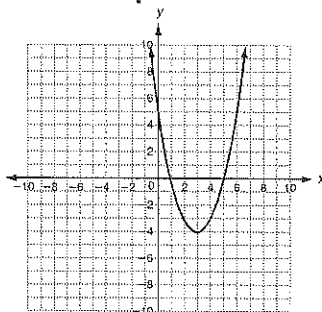
## Practice B

### Identifying Linear Functions

*CW for a grade*

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

1.

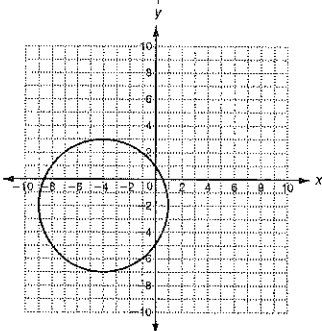



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2.




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

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

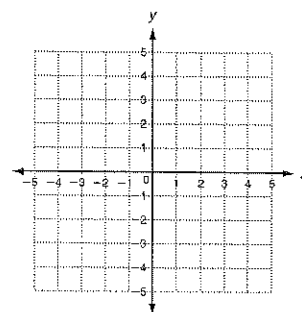
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Set B:  $\{(1, -5), (2, -3), (3, -1), (4, 1), (5, 3)\}$

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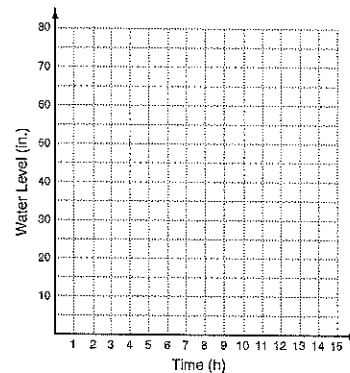
4. Write  $y = -2x$  in standard form. Then graph the function.

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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.

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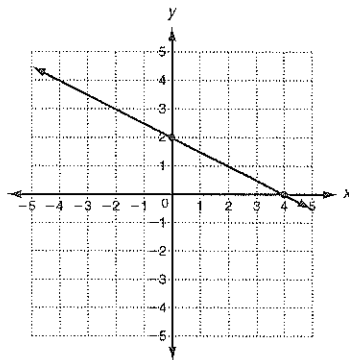


# Practice B

## Using Intercepts

Find the  $x$ - and  $y$ -intercepts.

1.

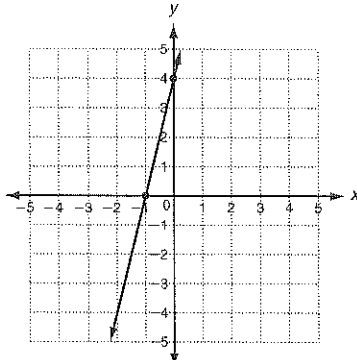



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2.

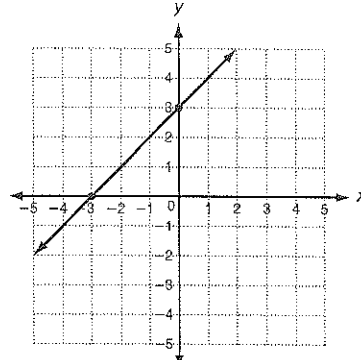



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3.



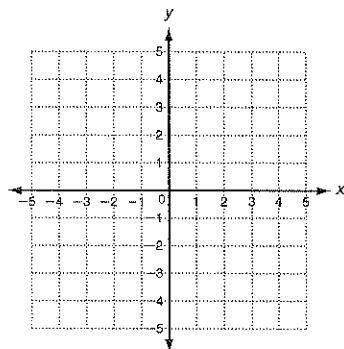

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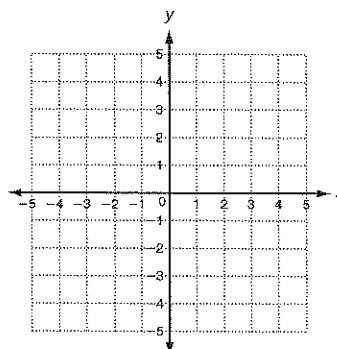
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Use intercepts to graph the line described by each equation.

4.  $3x + 2y = -6$



5.  $x - 4y = 4$



6. At a fair, hamburgers sell for \$3.00 each and hot dogs sell for \$1.50 each. The equation  $3x + 1.5y = 30$  describes the number of hamburgers and hot dogs a family can buy with \$30.

a. Find the intercepts and graph the function.

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b. What does each intercept represent?

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