Name

LESSON

5-1



Reteach Identifying Linear Functions

You can determine if a function is linear by its graph, ordered pairs, or equation.

Identify whether the graph represents a linear function.

Step 1: Determine whether the graph is a function.

Every x-value is paired with exactly one y-value; therefore, the graph is a function. Continue to step 2.

Step 2: Determine whether the graph is a straight line.

Conclusion: Because this graph is a function and a straight line, this graph represents a linear function.

Identify whether $\{(4, 3), (6, 4), (8, 6)\}$ represents a linear function.

Step 1: Write the ordered pairs in a table.

Step 2: Find the amount of change in each variable. Determine if the amounts are constant.

Conclusion: Although the *x*-values show a constant change, the y-values do not. Therefore, this set of ordered pairs does not represent a linear function.

Identify whether the function y = 5x - 2 is a linear function.

Try to write the equation in standard form (Ax + By = C).



Conclusion: Because the function can be written in standard form. (A = -5, B = 1, C = -2), the function is a linear function.

Tell whether each graph, set of ordered pairs, or equation represents a linear function. Write yes or no.





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3.	X	у
	-9	5
	-5	10
	-1	15

4. {(-3, 5), (-2, 8), (-1, 12)} **5.** $2y = -3x^2$



y

3

4

6

x

4

6

8

+2

+2

Class_



Give the domain and range for the graphs below.



10. Tyler makes \$10 per hour at his job. The function f(x) = 10x gives the amount of money Tyler makes after *x* hours. Graph this function and give its domain and range.





