Linear Relations and Functions

What You'll Learn	Scan the text in the lesson. Write two facts you learned about linear functions and relations as you scanned the text. 1.				
	2				
Active Vocabulary	Review Vocabulary Label the diagram using the words at the left. (Lesson 2-1)				
independent variable					
dependent variable	y = 3x - 4				
constant	New Vocabulary Fill in each blank with the correct term or phrase.				
linear relation ►	a relation in which the graph of the relation is a				
linear equation ►	an equation with exponents no greater than, and which does not contain the operation of of a constant by a variable				
linear function ►	a function whose satisfy a linear function of the form $f(x) = _\x + _\$				
standard form ►	form of a linear equation written as $Ax + By = C$ where A, B, C are and have a greatest common factor of				
y-intercept 🕨	the of the point at which a graph crosses the				
x -intercept \blacktriangleright	the of the point at which a graph crosses the				

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(continued)						
Main Idea	Details					
Linear Relations and Functions	Circle the characteristic of each function that makes it nonlinear. Sketch the graph of each function to show that it is nonlinear.					
	$f(x) = 3x^2$	- 1	$f(x) = \frac{1}{x} + 2$	$f(x) = \sqrt{x+2}$		
	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		<i>y</i> ↓			
	- O		0		X	
Standard FormCompare and contrast finding the x-intercept and the y-intercept for an equation by filling in the chart below.						
		Finding	g x-intercept	Finding y-intercep	t	
	What is the same?					

Helping You Remember

Find the *x*-intercept. How would you explain to her how to remember the correct method?

What is different?