

Name: _____

Date: _____

BLM 1–6

Chapter 1 Study Guide

This study guide is based on questions from the Chapter 1 Practice Test in the student resource.

Question	I can ...	Help Needed	Refer to
#1	generalize a rule about the effect of h on the graph of a function	<input type="checkbox"/> some <input type="checkbox"/> none	1.1 Examples 1, 2
#2	write the equation of a function whose graph is a vertical and/or horizontal translation of the graph of the function $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.1 Example 3
#3	determine the relationship between the coordinates of an ordered pair and the coordinates of the corresponding ordered pair that results from a horizontal translation	<input type="checkbox"/> some <input type="checkbox"/> none	1.1 Examples 2, 3
#4	determine the equation of a function that is a reflection of the graph of the function $y = f(x)$ through the y -axis	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Link the Ideas, Example 1
#5	generalize a rule about the effects of a and b on the transformation of $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Link the Ideas, Examples 1, 2
#6	generalize and explain rules for the reflection of the graph of the function $y = f(x)$ through the y -axis or the line $y = x$	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Link the Ideas, Example 2
#7	write the equation of a function given its graph, which is a vertical and/or horizontal stretch of the graph of the function $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Example 4
	write the equation of a function given its graph, which is a reflection of the graph of the function $y = f(x)$ through the x -axis, the y -axis, or the line $y = x$	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Example 4
#8	determine the domain of a function whose graph is a vertical and horizontal translation of the graph of the function $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.1 Investigate
#9	sketch the graph of the function given the graph of the function $y = f(x)$, where the equation of $y = f(x)$ is not given	<input type="checkbox"/> some <input type="checkbox"/> none	1.3 Link the Ideas, Example 2



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(continued)

Question	I can ...	Help Needed	Refer to
#10	sketch the graph of the inverse relation, given the graph of a relation	<input type="checkbox"/> some <input type="checkbox"/> none	1.4 Link the Ideas, Example 1
#11	determine the equation and sketch the graph of the inverse relation, given the equation of a linear or quadratic relation	<input type="checkbox"/> some <input type="checkbox"/> none	1.4 Example 3
#12	write the equation of a function whose graph is a stretch, reflection, and translation of the graph of the function $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.3 Link the Ideas, Examples 1, 2
#13	describe the effects of h and k on the transformation of $f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.1 Examples 1, 2
	write the equation of a function given its graph, which is a translation and/or stretch of the graph of the function $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Example 3
#14	write the equation of a function given its graph, which is a vertical and/or horizontal stretch of the graph of the function $y = f(x)$	<input type="checkbox"/> some <input type="checkbox"/> none	1.2 Link the Ideas, Example 4
#15	determine if a relation and its inverse are functions	<input type="checkbox"/> some <input type="checkbox"/> none	1.4 Example 1
	determine the equation and sketch the graph of the inverse relation, given the equation of a linear or quadratic relation	<input type="checkbox"/> some <input type="checkbox"/> none	1.4 Example 3
	determine restrictions on the domain of a function in order for its inverse to be a function	<input type="checkbox"/> some <input type="checkbox"/> none	1.4 Example 2

