

Chapter 2 Study Guide

This study guide is based on questions from the Chapter 2 Practice Test in the student resource.

Question	I can ...	Help Needed	Refer to
#1	graph a radical function of the form $y = a\sqrt{b(x-h)} + k$ by transforming the graph of $y = \sqrt{x}$ based on the values of a , b , h , and k	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 2
#2	solve a radical equation of the form $f(x) = g(x)$ by graphing the corresponding function, $y = f(x) - g(x)$, and identifying the value(s) of the x -intercept(s)	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 2
#3	analyse transformations to identify the domain and range of a radical function of the form $y = a\sqrt{b(x-h)} + k$	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 2
#4	demonstrate an understanding of the effect of a horizontal stretch on the graph of a radical function and its equations by identifying the equation of the transformed function	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 2
#5	determine the equation of a radical function from a graph	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 3
#6	analyse transformations to identify the domain and range of a radical function of the form $y = a\sqrt{b(x-h)} + k$	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 2
#7	solve a radical equation of the form $f(x) = g(x)$ graphically	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 3
#8	determine from a graph two forms of an equation that represents a radical function	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 3
#9	describe the relationship between the domains and ranges of functions of the form $y = f(x)$ and $y = \sqrt{f(x)}$ and explain why the domains and ranges differ	<input type="checkbox"/> some <input type="checkbox"/> none	2.2 Example 2
#10	analyse graphically functions of the form $y = f(x)$ and $y = \sqrt{f(x)}$ to identify and compare their domains and ranges	<input type="checkbox"/> some <input type="checkbox"/> none	2.2 Example 2
	analyse algebraically functions of the form $y = f(x)$ and $y = \sqrt{f(x)}$ to identify and compare their domains and ranges	<input type="checkbox"/> some <input type="checkbox"/> none	2.2 Example 2



Name: _____ Date: _____

BLM 2-6
(continued)

Question	I can ...	Help Needed	Refer to
#11	solve a radical equation of the form $f(x) = g(x)$ by graphing the corresponding function, $y = f(x) - g(x)$, and identifying the value(s) of the x -intercept(s)	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 2
	solve a radical equation of the form $f(x) = g(x)$ by graphing the system of functions that corresponds to the expression on each side of the equal sign, and then identifying the value(s) of x at the point(s) of intersection	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 2
#12	solve a radical equation of the form $f(x) = g(x)$ graphically or algebraically and check for any extraneous roots	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 3
#13	solve a problem involving a radical equation	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 4
#14	sketch the graph of the function $y - k = a\sqrt{b(x - h)}$ by applying transformations to the graph of the function $y = \sqrt{x}$, and state the domain and range	<input type="checkbox"/> some <input type="checkbox"/> none	2.1 Example 2
#15	sketch the graph of the function $y = \sqrt{f(x)}$ given the graph of the function $y = f(x)$, and explain the strategies used	<input type="checkbox"/> some <input type="checkbox"/> none	2.2 Example 2
#16	solve a problem involving a radical equation	<input type="checkbox"/> some <input type="checkbox"/> none	2.3 Example 4

