Chapter 2 Study Check

Use the chart below to help you assess the skills and processes you have developed during Chapter 2. The references direct you to pages in *Pre-Calculus 12 Student Workbook* where you can review the skill.

Big Idea	Skills	Things to Remember
Graph and analyse radical functions and transformations pages 39–46	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 pages 40–41	
	Use a graph to write the equation of the corresponding radical function in the form $y = a\sqrt{b(x - h)} + k$ page 42	
Graph the square root of a function pages 47–54	Compare the graph of the function $y = \sqrt{f(x)}$ to the graph of the function $y = f(x)$ page 48	
	Compare the domain and range of the function $y = \sqrt{f(x)}$ to the domain and range of the function $y = f(x)$ page 49	
	Sketch the graph of the function $y = \sqrt{f(x)}$ given the graph of the function $y = f(x)$, and explain the strategies used page 50	
Solve radical equations algebraically and graphically pages 55–63	Describe the relationship between the roots of a radical equation and the x-intercepts of the graph of the corresponding radical function page 56	
	Algebraically solve radical equations involving extraneous roots page 57	
	Determine graphically an approximate solution of a radical equation page 58	