

Chapter 1 Study Check

Use the chart below to help you assess the skills and processes you have developed during Chapter 1. The references direct you to pages in *Pre-Calculus 12 Student Workbook* where you can review the skill.

Big Idea	Skills	Things to Remember
Demonstrate an understanding of the effects of horizontal and vertical translations on the graphs of functions and their related equations pages 1–8	Determine the effects of h and k in $y - k = f(x - h)$ on the graph of $y = f(x)$ and sketch the graph page 2	
	Write the equation of a function whose graph is a vertical and/or horizontal translation of the graph of $y = f(x)$ page 3	
Demonstrate an understanding of the effects of reflections and stretches on the graphs and equations of functions pages 9–17	Graph a reflection in the x - or y -axis of a function page 10	
	Determine the effects of a and b in $y = af(bx)$ on the graph of $y = f(x)$ and sketch the graph page 11	
	Write the equation of a function whose graph is a stretch and/or reflection of the function $y = f(x)$ page 12	
Apply multiple transformations to the same function pages 18–25	Graph transformed functions labelling each stage of the transformation page 19	
	Determine the equation of a transformed function page 20	
Demonstrate an understanding of inverses of relations pages 26–34	Sketch the graph of the inverse of a relation page 27	
	Determine the equation of the inverse of a quadratic function page 28	