

## Chapter 5 Study Check

Use the chart below to help you assess the skills and processes you have developed during Chapter 5. 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 sine and cosine functions pages 149–157	Sketch the graphs of $y = \sin x$ and $y = \cos x$ pages 150–151	
	Demonstrate an understanding of the effects of vertical and horizontal stretches on the graphs of sinusoidal functions pages 151–152	
Apply transformations to sinusoidal functions pages 158–166	Sketch the graph of a function of the form $y = a \sin b(x - c) + d$ or $y = a \cos b(x - c) + d$ and determine the domain and range page 159	
	Determine the equation of a function in the form $y = a \sin b(x - c) + d$ or $y = a \cos b(x - c) + d$ from its graph pages 160–161	
Graph and analyse the tangent function pages 167–174	Sketch the graph of $y = \tan x$ pages 168–169	
	Apply the tangent function to model and solve problems page 170	
Use equations and graphs of trigonometric functions to model problems pages 175–182	Solve trigonometric equations pages 175–176	
	Solve trigonometric equations by graphing pages 176–177	
	Model problems using sinusoidal functions pages 177–178	