

## Chapter 9 Study Check

Use the chart below to help you assess the skills and processes you have developed during Chapter 9. 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 transformations of rational functions pages 297–304	Graph and analyse rational functions using a table of values page 298	
	Graph and analyse rational functions using transformations page 299	
	Graph a rational function with linear expressions in the numerator and denominator and determine any asymptotes and intercepts page 300	
Determine asymptotes and points of discontinuity in rational functions pages 305–311	Graph a rational function with a point of discontinuity page 306	
	Compare the behaviour of rational functions near non-permissible values page 307	
	Graph discontinuous rational functions and determine the asymptotes, points of discontinuity, and intercepts page 308	
Solve rational equations algebraically and graphically pages 314–320	Relate the roots of rational equations to the $x$ -intercepts of the graphs of rational functions page 315	
	Solve rational equations graphically and verify solutions algebraically page 316	
	Solve rational equations with an extraneous root algebraically and graphically page 317	