Chapter 3 Study Check

Use the chart below to help you assess the skills and processes you have developed during Chapter 3. The references direct you to pages in *Pre-Calculus 12 Student Workbook* where you can review the skill.

Big Idea	Skills	Things to Remember
Understand different types and characteristics of polynomial functions pages 66–77	Identify polynomial functions page 68	
	Identify characteristics of polynomial functions and match them with their graph pages 69–70	
	Model and solve problems involving polynomial functions page 71	
Divide a polynomial by a binomial using long division and synthetic division, and apply the remainder theorem pages 78–83	Divide a polynomial by a binomial and identify any restrictions on the variable pages 78–79	
	Apply polynomial division to solve problems page 79	
	Divide a polynomial using synthetic division pages 79–80	
	Apply the remainder theorem page 80	
Apply the factor theorem and integral zero theorem, and factor polynomial functions pages 84–90	Use the factor theorem to test for factors of a polynomial pages 84–85	
	Use the integral zero theorem to find a factor of a polynomial and relate the linear factors to the zeros of the corresponding function pages 85–86	
	Apply the factor theorem to solve problems involving polynomial expressions page 87	

Big Idea	Skills	Things to Remember
Explore graphs and transformations of polynomial functions pages 91–102	Analyse graphs of polynomial functions pages 92–93	
	Sketch graphs of polynomial functions pages 93–95	
	Apply transformations to polynomial functions to sketch the graph pages 95–96	