## Section 3.4 Equations and Graphs of Polynomial Functions – Day 1

Name:		Date:		
	Learning Goal 3.3	Solving equations algebraically and graphically.		

## **More Questions**

1. Consider the equation  $f(x) = x^3 + 4x^2 + 5x + 2$ .

Degree	Leading Coefficient	Constant	Domain	y — intercept	Number of $x - intercepts$

- a. What is the end behaviour of the function?
- b. Factor the equation.
- c. Find the solutions or roots of the equation. What multiplicity does each have?
- 2. Consider the equation  $g(x) = 10x^3 + 19x^2 + 2x 7$ .

Degree	Leading Coefficient	Constant	Domain	y — intercept	Number of $x - intercepts$

- d. What is the end behaviour of the function?
- e. Factor the equation.
- f. Find the solutions or roots of the equation. What multiplicity does each have?