Chapter 3

Section 3.4 Equations and Graphs of Polynomial Functions – Day 2

Polynomial Functions

		Da	ate:
Learning Goal 3.3	Solving equations alg	gebraically and graphically.	
	More Que	stions	
		nnology, determine the foll	owing attributes. Sketch
Degree	-	 y – intercept value 	 x - intercept value(s)
Interval(s) where the function	n is positive	 Interval(s) where the 	e function is negative
c. $f(x) = -x^3 + 13x + 12$ d. $y = -2x^3 + 6x - 4$ Find the attributes of the grap Least possible	ohs below. Sign of the eading	 x — intercepts and the factors of the function 	 Intervals where positive and negative
			26
	Learning Goal 3.3 Consider the functions and withe graph, then compare to de Degree • L Interval(s) where the function a. $y = (x - 2)^3(x + 1)$ b. $g(x) = (x - 1)(x + 2)(x)$ c. $f(x) = -x^3 + 13x + 12$ d. $y = -2x^3 + 6x - 4$ Find the attributes of the grap Least possible • S degree c	Learning Goal 3.3Solving equations algMore QueConsider the functions and without the use of techthe graph, then compare to desmos.Degree• Leading CoefficientInterval(s) where the function is positivea. $y = (x - 2)^3(x + 1)$ b. $g(x) = (x - 1)(x + 2)(x + 3)$ c. $f(x) = -x^3 + 13x + 12$ d. $y = -2x^3 + 6x - 4$ Find the attributes of the graphs below.Least possible degree $y = \frac{y^{-6}}{e^{-1}}$	Learning Goal 3.3Solving equations algebraically and graphically.More QuestionsConsider the functions and without the use of technology, determine the following the graph, then compare to desmos.Degree• Leading CoefficientDegree• Leading CoefficientInterval(s) where the function is positive• Interval(s) where thea. $y = (x - 2)^3(x + 1)$ b. $g(x) = (x - 1)(x + 2)(x + 3)$ c. $f(x) = -x^3 + 13x + 12$ d. $y = -2x^3 + 6x - 4$ Find the attributes of the graphs below. Least possible degree• Sign of the leading coefficient• Sign of the leading coefficient• $x -$ intercepts and the factors of the function