

## Introduction

The aim of this investigation is to analyse a number of real polynomial functions through the various degrees, roots, turning points and the points of inflection. A polynomial is a function which consists of variables and coefficients, which are identified by its degree: 1, 2, 3, 4 and 5. They are written as: quadratic:  $f(x) = ax^2 + bx + c$ ; cubic:  $f(x) = ax^3 + bx^2 + cx + d$ ; and quartic:  $f(x) = ax^4 + bx^3 + cx^2 + dx + e$ , all  $\neq 0$ . Turning points are points on a graph where the graph changes direction from increasing to decreasing or decreasing to increasing. A point of inflection is the point where the concavity of the line changes, concave up or concave down. Roots are the variables used in the expression.

To undertake this investigation, a graphing package known as FX Graph will be used. The information obtained by the graph will be displayed in the tables written below, and will be split into three parts: **Part A**, **Part B** and **Part C**, each discussing different polynomials and their turning points, points of inflection and roots, and deciphering their conjectures. **Part A** will investigate polynomials with four distinct linear factors with the form  $p(x) = a(x-\alpha)(x-\beta)(x-\gamma)(x-\delta)$  and polynomials with five distinct linear factors with the form  $p(x) = a(x-\alpha)(x-\beta)(x-\gamma)(x-\delta)(x-\epsilon)$ . A conjecture will be formed and supported by another investigated polynomial. **Part B** will investigate polynomials with a squared linear factor and two distinct linear factors with the form  $p(x) = a(x-\alpha)^2(x-\beta)(x-\gamma)(x-\delta)$ , and polynomials with a squared linear factor and three distinct linear factors with the form  $p(x) = a(x-\alpha)^2(x-\beta)(x-\gamma)(x-\delta)(x-\epsilon)$ ; and a conjecture will be formed. To support this conjecture, another polynomial will be investigated. **Part C** will investigate several other possible combinations of factors for quartic polynomials and will include polynomials with a real quartic factor with complex conjugate roots.

## Method

Using the FX Graph package, a number of polynomials were formed.

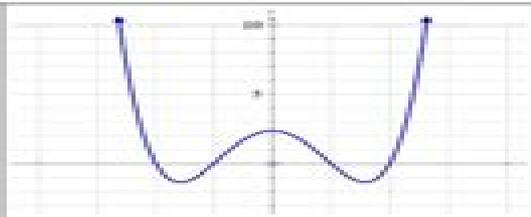
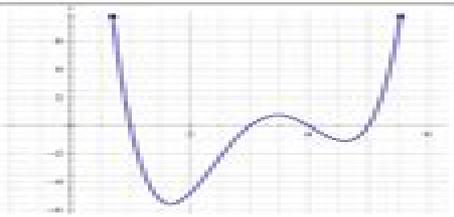
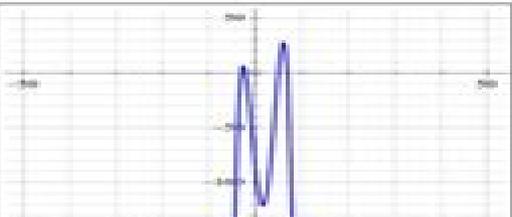
1. Download the FX Graph package.
2. Open the application.
3. Press the  $y=$  button.
4. Enter the polynomial function, then press OK.
5. Zoom in or out, so you can see the entire polynomial.
6. Press WIN, shift, s.
7. Outline the area the polynomial covers and paste into the table on the document.

## Part A

The investigation will start with polynomials with degree four. These polynomials with four distinct real linear factors have been graphed with the below form.

Table 1: Quartic Polynomials of the following form

$$p(x) = a(x - \alpha)(x - \beta)(x - \gamma)(x - \delta), a \neq 0.$$

Graph			
Function	$y=0.6(x+2)(x+1)(x-2)(x-2)$	$y=0.8(x-3)(x-4)(x-5)(x-1)$	$y=-0.4(x+2)(x+3)(x-5)(x-7)$
Roots	-2, -1, 1, 2	-5, -4, -3, -1	-5, -7, 2, 3
Turning points	3	3	3
Points of inflection	2	2	2

# Investigating Polynomials Tesccc Key

**Victor M. Corman**



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