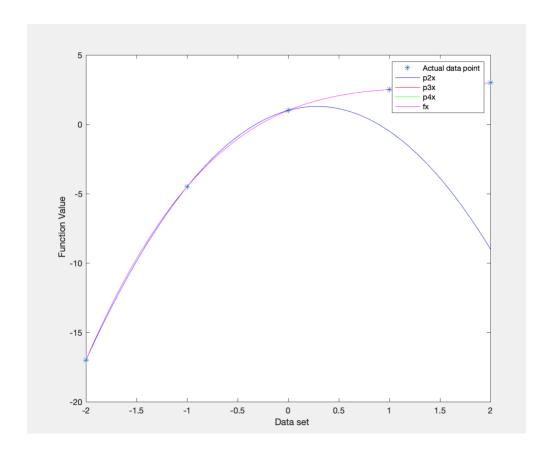
Problem 4:

Mistake in Problem 4:

I made a small mistake while calculating the IV DD where 0.5-0.5 becomes 0 which will cancel the whole 4th degree polynomial expression.

```
Looking at the graph: The code is fx = @(x)0.5^+x.^3 - 2^+x.^2 + 3^+x + 1; p2x = @(x) - 17 + 12.5.^*(x + 2) - 3.5.^*(x + 2).^*(x + 1); p3x = @(x) - 17 + 12.5.^*(x + 2) - 3.5.^*(x + 2).^*(x + 1) + 0.5.^*(x + 2).^*(x + 1).^*(x); p4x = @(x) - 17 + 12.5.^*(x + 2) - 3.5.^*(x + 2).^*(x + 1) + 0.5.^*(x + 2).^*(x + 1).^*(x); xData = [-2, -1, 0, 1, 2]; xPlot = linspace(-2, 2, 100); ylot(xData, fx(xData), ylot), ylot, p2x(xPlot), ylot, ylot, p3x(xPlot), ylot, ylot, p4x(xPlot), ylot, ylot,
```

The graph:



Now, the graph looks way better than the actual submitted in the assignment.