Analyzation

All of the results printed out generating by my own functions are closely precise to results created by the functions in the file <math.h>. These results are shown within eight decimal places and are equal within ten decimal places since the differences between them are all zeros. The only difference between results of my code and results generated by C library revealed in the “Difference” column: some numbers are negative but others are positive. Although all the data in the “Difference” column are zeros, the signs are different. This inconsistency, in my opinion, is caused by the results of the subtraction: Function(x) - function(x) (the subtrahend is function created from my code; the minuend is function in C library). Because we can only get a close number (instead of a truly accurate one) comparing with the result created by function from C library every time I run my code, Function(x) sometimes may be greater than or smaller than function(x). That is, there are differences in decimal places between Function(x) and function(x) after the tenth place.