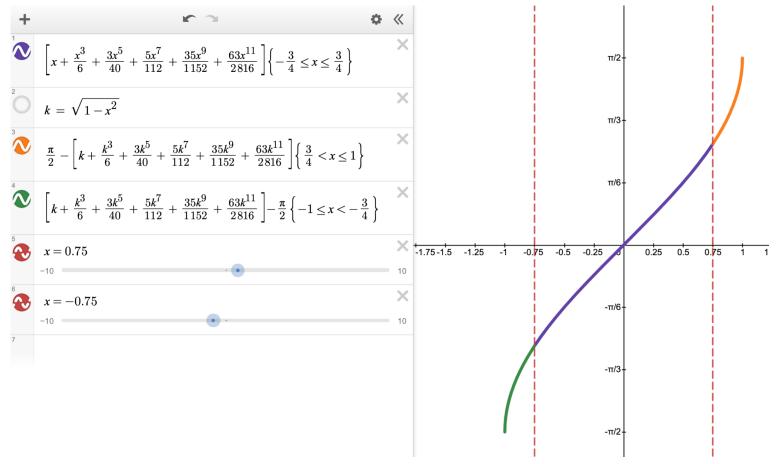
Comparison of Program Output to <math.h> Output

My arcSin(x), arcCos(x), arcTan(x), and Log(x)	X	arcSin	Library	Difference
functions are somewhat accurate, but not	-1.0000	-1.57079633	-1.57079633	0.000000000
sufficiently accurate.	-0.9000	-1.11976994	-1.11976951	-0.000000000
	-0.8000	-0.92732727	-0.92729522	-0.0000320490
My arcSin(x) and arcCos(x) functions are most				
accurate around $x = -1$, $x = 0$, and $x = 1$, and are	x	arcCos	Library	Difference
accurate to at least 10e-10 at those values.	-			
accurate to at least 10e-10 at those values.	-1.0000	3.14159265	3.14159265	-0.000000000
	-0.9000	2.69056626	2.69056584	0.0000004205
My arcSin(x) and arcCos(x) functions are least	-0.8000	2.49812359	2.49809154	0.0000320490
accurate around $x = -3/4$ and $x = 3/4$, and are	X	arcTan	Library	Difference
only accurate to 10e-4 at those values.	_			
,	1.0000	0.78572276	0.78539816	0.0003245921
M. anaTanak A function is such a securete to 10 a 4 at	1.1000	0.83314018	0.83298127	0.0001589179
My arcTan(x) function is only accurate to 10e-4 at	1.2000	0.87613710	0.87605805	0.0000790505
x = 1, and increases in accuracy until $x = 10$	1.3000	0.91514074	0.91510070	0.0000400364
when it is accurate to at least 10e-4	1.4000	0.95056751	0.95054684	0.0000206718
My Log(x) function is completely inaccurate and	х	Log	Library	Difference
always returns 42	- 1.0000	42.00000000	0.00000000	42.0000000000
aiways rotains 72	1.1000	42.00000000	0.09531018	41.9046898202
	1.2000	42.00000000	0.18232156	41.8176784432

Explanation

I would have liked to improve my functions, but I ran out of time. As a result, in some cases, my functions are only accurate to 10e-4.

My arcSin(x) functions uses the first 6 terms of the McLauren series for $\sin^{-1}(x)$ for $-3/4 \le x \le 3/4$ and it uses a trig identity elsewhere in the domain.



arcCos(x) makes use of arcSin(x) with a trig identity

arcTan(x) makes use of arcCos(x) with a trig identity

Log(x) does not work properly because I ran out of time. It simply returns 42.