

Cycle	0	1	2	3	4	5	6	7	8	9
Read PC	100	101	102	103	104	105	106	107	108	109
Write IR	LOAD	LOAD	LOAD	BLE	SQR	DIV	NO-OP	DIV	MUL	NO-OP
Write RA		R8	R8	R8	R1	R1	R1		R4	R4
Write RB					R7		R3		R2	R5
Write AR			[R8]+numX	[R8]+num1	[R8]+num2					
Write DR							R1*R1	R1/R3		R4/R2
Write CR				[R1]=x	[R2]=2	[R3]=3		[R4]= x^2	[R5]= $\frac{x}{3}$	
Write MEM										
Write PC	101	102	103	104	105	106	107	108	109	110

Cycle	10	11	12	13	14	15	16	17	18	19
Read PC	110	111	112	113	114	115	116	117	118	119
Write IR	SQR	SUB	SUB	ADD	STORE					
Write RA		R3	R1	R5	R5-R6	R1+R5				
Write RB			R3	(R6)	(R1)					
Write AR							[R8]+numY			
Write DR	R4*R5		R3*R3	R1-R3	R5-R6	R1+R5				
Write CR	[R3]= $\frac{x^2}{2}$	[R5]= $\frac{x^3}{3}$		[R6]= $\frac{x^4}{4}$	[R1]= $x - \frac{x^2}{2}$	[R5]= $\frac{x^3}{3} - \frac{x^4}{4}$	[R1]= $x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4}$			
Write MEM								[R8+numY]=[R1]		
Write PC	111	112	113	114	115					