

Convert Arabic numerals to Roman numerals

Arabic				
Number				Init.

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Convert Arabic numerals to Roman numerals
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1) Initialization E

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2) Convert                                nbr      A
                                         (nbr < 4000)
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A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is called a μ -measurable function if for every $\alpha \in \mathbb{R}$ the set $\{x \in \mathbb{R} : f(x) \leq \alpha\}$ is μ -measurable.

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RC* 00 + RCL 10 = X/T 08 INV LOG X/T GE 00 22
* 01 00 00 = STO 10 RTN
ST* 09 CLR STO 10 OP 29 RTN
LBL A OP 00 PRT X/T CLR STO 10 04 00 00 00 X/T GE 01 84
/ 04 INV LOG = STO 08 01 03 STO 09 05 STO 11 01 INV SUM 11 CP RCL 08 INV INT
EQ 01 56
* 01 00 = STO 08 INT STO 12 X/T RCL 11 * 02 = STO 00 00 EQ 00 61
03 GE 01 13
05 GE 01 25
09 EQ 01 42
SBR 00 00 05 INV SUM 12 OP 30 SBR 00 00 DSZ 12 01 15
GTO 00 61
05 EQ 01 36
OP 30 SBR 00 00 OP 20 SBR 00 00 GTO 00 61
OP 30 SBR 00 00 02 SUM 00 SBR 00 00 GTO 00 61
RCL 10 CP EQ 01 81
X/T 08 INV LOG X/T GE 01 78
* 01 00 00 = GTO 01 67
SBR 00 22 SBR COS R/S
X/T 07 01 OP 04 X/T OP 06 X/T SBR YX X/T R/S
LBL E CMS 02 04 STO 01 04 02 STO 02 04 04 STO 03 02 07 STO 04 01 05 STO 05 01
06 STO 06 03 00 STO 07 OP 59 SBR SIN CLR R/S
LBL COS OP 00 RCL 15 X/T 00 INV EQ TAN
RCL 13 OP 03 RCL 14 OP 04 OP 05 00 GTO IXI
LBL TAN RCL 15 / 08 INV LOG = STO 18 RCL 14 / 08 INV LOG = STO 17 INV INT INV
SUM 17 * 01 00 INV LOG = SUM 18 RCL 13 / 08 INV LOG = STO 16 INV INT INV SUM
16 * 01 00 INV LOG = SUM 17 RCL 16 OP 02 RCL 17 OP 03 RCL 18 OP 04 OP 05
LBL IXI SBR YX RCL 13 OP 03 RCL 14 OP 04 00 STO 13 STO 14 STO 15 OP 55 RTN
LBL SIN SBR YX SBR X2 SBR YX OP 00 RTN
LBL YX OP 00 06 04 06 04 OP 02 06 04 06 04 06 04 06 04 06 04 OP 03 06 04 06
04 06 04 06 04 06 04 OP 04 OP 05 RTN
LBL X2 OP 00 03 05 03 02 03 00 01 03 03 01 OP 03 00 00 00 00 00 00 00 00
00 OP 04 OP 05 OP 55 PAU PAU 00 00 03 01 04 01 03 00 01 07 OP 03 03 05 01 03
02 07 03 06 00 00 OP 04 OP 05 OP 55 PAU PAU RTN

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L A B E L S
031 11 A
198 15 E
235 39 COS
259 30 TAN
328 50 IXI
350 38 SIN
361 45 YX
398 33 X2

Adr	Branch.
000	106 71 SBR
000	115 71 SBR
000	131 71 SBR
000	136 71 SBR
000	144 71 SBR
000	150 71 SBR
022	011 77 GE
022	178 71 SBR
061	091 67 EQ
061	122 61 GTO
061	139 61 GTO
061	153 61 GTO
113	095 77 GE
115	118 97 DSZ
125	099 77 GE
136	126 67 EQ
142	103 67 EQ
156	070 67 EQ
167	175 61 GTO
178	167 77 GE
181	159 67 EQ
184	044 77 GE
COS	181 71 SBR
IXI	256 61 GTO
SIN	230 71 SBR
TAN	243 67 EQ
X2	353 71 SBR
YX	193 71 SBR
YX	329 71 SBR
YX	351 71 SBR
YX	355 71 SBR

Reg.	Instr.
00	000 73 RC*
	088 42 STO
	148 44 SUM
01	202 42 STO
02	206 42 STO
03	210 42 STO
04	214 42 STO
05	218 42 STO
06	222 42 STO
07	226 42 STO
08	052 42 STO
	066 43 RCL
	077 42 STO
09	022 72 ST*
	056 42 STO
10	003 43 RCL
	019 42 STO
	025 42 STO
	037 42 STO
	156 43 RCL
11	059 42 STO
	063 44 SUM
	083 43 RCL
12	080 42 STO
	111 44 SUM
13	245 43 RCL
	291 43 RCL
	331 43 RCL
	340 42 STO
14	249 43 RCL
	269 43 RCL
	335 43 RCL
	342 42 STO
15	238 43 RCL
	260 43 RCL
	344 42 STO

16	298 42 STO
	303 44 SUM
	313 43 RCL
17	276 42 STO
	281 44 SUM
	311 44 SUM
	317 43 RCL
18	267 42 STO
	289 44 SUM
	321 43 RCL