
```
================================================
                    C U B E
================================================
         Cube root and cube calculation.
+-----+----------------------+-------+---------+
|Step | Procedure            |  Keys | Display |
+-----+----------------------+-------+---------+
|  1  | Cube root calculation |  n A  |   root  |
|  2  | Cube calculation      |  n B  |   cube  |
+-----+----------------------+-------+---------+
     (idea taken from the hpmuseum.org forum)
================================================
```

```
================================================
```

```
// ##### CUBE ROOT CALCULATION #####
LBL A
STO 03 CP
GE  COS STF 1 +/-
LBL COS
STO 02 D' RCL 03 PRT 1 STO 01 1 0 STO 00
LBL SQR
( ( ( RCL 02 * RCL 01 ) SQR SQR * 4 ) - RCL 01 ) / 3 =
STO 01
DSZ 00 SQR
INV IFF 01 SIN
+/- STO 01 INV STF 1
LBL SIN
PRT D' RCL 01
R/S

// ##### CUBE CALCULATION #####
LBL B
STO 02 D' RCL 02 PRT PRD 02 PRD 02 RCL 02 PRT D' RCL 02
R/S

// ##### LINE #####
LBL D'
OP 00
2 0 2 0 2 0 2 0 2 0 OP 01
OP 02
OP 03
OP 04
OP 05
RTN
```

| L A B E L S |
|---|
| 001 11 A |
| 011 39 COS |
| 026 34 SQR |
| 064 38 SIN |
| 071 12 B |
| 090 19 D' |

| Adr | Branch. |
|---|---|
| COS | 005 77 GE |
| D' | 014 19 D' |
| D' | 066 19 D' |
| D' | 074 19 D' |
| D' | 085 19 D' |
| SIN | 054 87 IFF |
| SQR | 050 97 DSZ |

| Reg. | Instr. |
|---|---|
| 00 | 023 42 STO |
| 01 | 019 42 STO |
| | 033 43 RCL |
| | 042 43 RCL |
| | 048 42 STO |
| | 058 42 STO |
| | 067 43 RCL |
| 02 | 012 42 STO |
| | 030 43 RCL |
| | 072 42 STO |
| | 075 43 RCL |
| | 078 49 PRD |
| | 080 49 PRD |
| | 082 43 RCL |
| | 086 43 RCL |
| 03 | 002 42 STO |
| | 015 43 RCL |