

#	Name	Description	Inputs	Output
1	-GEOMETRY	<i>Header Section</i>	n/a	n/a
2	"SINP"	Sine Plate Solutions	<i>see manual</i>	<i>see manual</i>
3	"VNOTCH"	V Notches and Long Radii	<i>see manual</i>	<i>see manual</i>
4	"TAPERS"	Internal and External Tapers	<i>see manual</i>	<i>see manual</i>
5	"POINTS"	Points of Tangency Circles & Arcs	<i>see manual</i>	<i>see manual</i>
6	"LINE"	Line-Line Intersection	<i>see manual</i>	<i>see manual</i>
7	"PLINE"	Points on a Straight Line	<i>see manual</i>	<i>see manual</i>
8	"GRIDALL"	Grid of Points, All Points	<i>see manual</i>	<i>see manual</i>
9	"GRIDISC"	Grid of Points, Discrete Points	<i>see manual</i>	<i>see manual</i>
10	"TANGENT"	Tangent Circle to 2 Straight Lines	<i>see manual</i>	<i>see manual</i>
11	"DIST"	Distance between Lines in Space	<i>see manual</i>	<i>see manual</i>
12	"XOUT"	Value output subroutine	x in X	prompts X value in Alpha
13	"GRIDS"	Grids subroutine	under program control	prompts for grid data
14	PP2DST	Distance between 2 points	x1,y1 in T,Z - x2,y2 in XY	Distance in X
15	-TRIANGLES	<i>Header Section</i>	n/a	n/a
16	"ABC"	Triangle Solver	see: http://hp41programs.yolasite.com/triangles.php	
17	"HABC"	Hyperbolic Triangle Solver	see: http://hp41programs.yolasite.com/hyperbolictriangle.php	
18	"SABC"	Spherical Triangle Solver	see: http://hp41programs.yolasite.com/sph-triangle.php	
19	"ASA"	Angle-Side-Angle	<i>See MathPac manual</i>	<i>See MathPac manual</i>
20	"SAA"	Side-Angle-Angle	<i>See MathPac manual</i>	<i>See MathPac manual</i>
21	"SAS"	Side-Angle-Side	<i>See MathPac manual</i>	<i>See MathPac manual</i>
22	"SSA"	Side-Side-Angle	<i>See MathPac manual</i>	<i>See MathPac manual</i>
23	"SSS"	Side-Side-Side	<i>See MathPac manual</i>	<i>See MathPac manual</i>
24	"TRANS"	Transformation of Coordinates	<i>See MathPac manual</i>	<i>See MathPac manual</i>
25	R-S	Rectangular to Spherical	x,y,z in Stack	R,Phi,Theta in Stack
26	S-R	Spherical to Rectangular	R,Phi,Theta in Stack	x,y,z in Stack
27	-VECTORS	<i>Header Section</i>	n/a	n/a
28	A+V	Vector Addition	V1 in A, V2 in Stack	V1+V2 in Stack
29	A-V	Vector Subtraction	V1 in A, V2 in Stack	V1-V2 in Stack
30	A*V	Vector Dot Product	V1 in A, V2 in Stack	Dot product in X
31	AXV	Vector Cross Product	V1 in A, V2 in Stack	AxV in Stack
32	V<> _ _	Vector Exchange	Prompts for RG#	Swaps V and RG#
33	V<>A	Vector Swap	V1 in A, V2 in Stack	V2 in A, V1 in Stack
34	VADST	Distance between Vectors	V1 in A, V2 in Stack	Distance in X
35	VANG	Angle Between Vectors	V1 in A, V2 in Stack	Angle in X
36	VCHS	Vector negative	V in Stack	-V in Stack
37	VENTER^	Vector ENTER^	V in Stack	Inputs V in A
38	VIEWV	Vector View	V in Stack	Views V components
39	VINV	Vector Inverse	V in Stack	1/V in Stack
40	VMOD	Vector Magnitude	V in Stack	Magnitude in X
41	VNORM	Vector Norm	V in Stack	$ V = V ^2$ in X
42	VRCL _ _	RCL Vector	Prompts for RG#	Pushes V1 to A, gets RG# to Stack
43	VSTO _ _	STO Vector	Prompts for RG#	Saves V from Stack to RG#
44	VUNIT	Unit Vector	V in Stack	unitV in Stack
45	VVIEW _ _	View Vector	Prompts for RG#	Views RG# components
46	A/V	Vector Division	V1 in A, V2 in Stack	V1/V2 in Stack

