Hints page: an example

Annotated Drawing
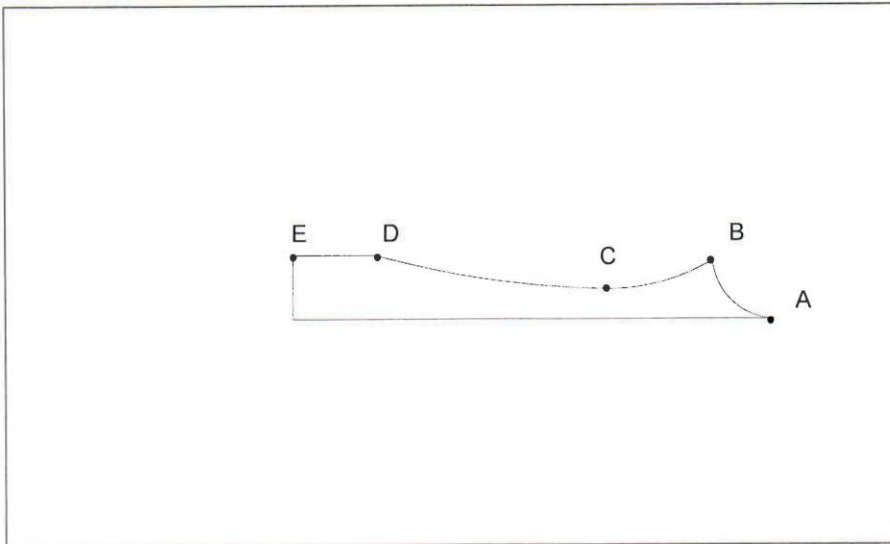

Table of Datum Points

Radius

Point	Datum	A	B	C	D	E
X		0	0.3432	0.1750	0.3750	0.3750
Z		0	-0.3737	-1.0562	-2.4	-2.9

Diameter

Point	Datum	A	B	C	D	E
X		0.6864 0.6864	0.6864	0.350	0.750	0.750
Z		0	-0.3737	-1.0562	-2.4	-2.9

Original High Level Program

Block	Code	Notes
1	G00 X0 Z0;	Move to A
2	G02 X0.3432 Z-0.3737 J0.3750;	Move from A to B
3	G02 X0.1750 Z-1.0562 I1.0818 K-0.5263;	Move from B to C
4	G02 X0.3750 Z-2.4 I5.7 K0.0562;	Move from C to D
5	G01 X0.3750 Z-2.9;	Move from D to E

Whether you draw a profile or the full diameter: the X-axis is zero at the center of the stock. In other words, the stock is measured from the center to the outer diameter with the center being 0.0" and the outer diameter being either 0.75" or 1.0" depending upon your choice.

Note: Cutting in the Z-direction must be a negative. Why? Radii should be entered as diameters. Why?