CIRCLE

PURPOSE
Draws a circle.

DESCRIPTION
The 2 pairs of coordinates define the (x,y) values for the two ends of the diameter of the circle.

SYNTAX
CIRCLE <x1> <y1> <x2> <y2>

where <x1> is a number or parameter in the range 0 to 100 that specifies the x coordinate for one end of the diameter of the circle;

<y1> is a number or parameter in the range 0 to 100 that specifies the y coordinate for one end of the diameter of the circle;

<x2> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the other end of the diameter of the circle;

and   <y2> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the other end of the diameter of the circle.

EXAMPLES
CIRCLE 50 50 60 60
CIRCLE 50 50 60 50
CIRCLE 50 20 60 20
CIRCLE X1 Y1 X2 Y2

NOTE 1
The line style (i.e., solid, dash), color, and thickness of the circle are controlled by the LINE, LINE COLOR, and LINE THICKNESS commands. The REGION FILL ON command can be used to generate a solid filled circle. Various REGION commands can be used to generate hatch filled patterns and the set the attributes of the hatch lines. These commands are documented in the Plot Control chapter.

NOTE 2
If you use a software font, circles can be embedded in text (e.g., the LEGEND or TEXT commands) by entering the string CIRC(). To get filled circles, enter LEGEND <id> FILL SOLID (for legends) or FILL ON (for TEXT). Circles can also be used as plot characters (e.g., CHARACTERS CIRCLE), in which case the attributes are set with the various CHARACTER commands.

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
POINT	=	Draws a point.
ARROW	=	Draws an arrow.
TRIANGLE	=	Draws a triangle.
BOX	=	Draws a box.
HEXAGON	=	Draws a hexagon.
SEMI-CIRCLE	=	Draws a semi-circle.
ARC	=	Draws an arc.
ELLIPSE	=	Draws an ellipse.
OVAL	=	Draws an oval.
DIAMOND	=	Draws a diamond.
DRAW	=	Draws a line.
MOVE	=	Moves to a point.
LINE	=	Sets the line type for figures and plot lines.
LINE THICKNESS	=	Sets the line thickness for figures and plot lines.
LINE COLOR	=	Sets the line colors for figures and plot lines.
REGION FILL	=	Specifies whether a figure is filled or not.
CROSS-HAIR	=	Activates and reads the cross-hair.
TEXT	=	Writes a text string.

APPLICATIONS
    Presentation graphics

IMPLEMENTATION DATE
    Pre-1987 (the ability to do hatch filled patterns was added 93/12)

PROGRAM
    CIRCLE 10 10 20 20
    CIRCLE 60 10 80 30
    THICKNESS 0.7
    CIRCLE 10 30 20 40
    THICKNESS 0.2; LINE DASH
    CIRCLE 10 50 20 60
    LINE SOLID; LINE COLOR G50
    CIRCLE 10 80 20 90
    LINE COLOR BLACK; REGION FILL ON
    CIRCLE 30 30 35 35
    REGION FILL COLOR G50
    CIRCLE 40 40 60 60
    REGION FILL COLOR BLACK; REGION PATTERN D1D2
    CIRCLE 75 60 90 72
    .
    FILL ON; FONT SIMPLEX; MOVE 40 80
    TEXT CIRC() DRAW A CIRCLE WITH THE TEXT COMMAND