SEMI CIRCLE

PURPOSE
    Draws a semi-circle.

DESCRIPTION
    The 2 pairs of coordinates define the (x,y) values for one end and the other end (respectively) of the diameter of the semi-circle.

SYNTAX
    SEMI-CIRCLE <x1> <y1> <x2> <y2>
    where <x1> is a number or parameter in the range 0 to 100 that specifies the horizontal coordinate of one end;
        <y1> is a number or parameter in the range 0 to 100 that specifies the vertical coordinate of one end;
        <x2> is a number or parameter in the range 0 to 100 that specifies the horizontal coordinate of the other end;
    and   <y2> is a number or parameter in the range 0 to 100 that specifies the vertical coordinate of the other end.

EXAMPLES
    SEMI-CIRCLE 50 50 60 60
    SEMI-CIRCLE 50 50 60 50
    SEMI-CIRCLE A B C D

NOTE
    The line style (i.e., solid, dash), color, and thickness of the semi-circle are controlled by the LINE, LINE COLOR, and LINE THICKNESS commands. The REGION FILL command can be used to generate solid filled circles while the REGION PATTERN command can be used to generate hatch filled patterns.

DEFAULT
    None

SYNONYMS
    None

RELATED COMMANDS
    CIRCLE   =   Draws a circle.
    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.
    CROSS-HAIR   =   Activates and reads the cross-hair.
    TEXT   =   Writes a text string.

APPLICATIONS
    Presentation graphics

IMPLEMENTATION DATE
    Pre-1987

PROGRAM

        SEMI-CIRCLE 10 10 20 20
        SEMI-CIRCLE 60 10 80 30
        .
        THICKNESS 0.7
        SEMI-CIRCLE 10 30 20 40
        THICKNESS 0.2
        .
        LINE DASH
        SEMI-CIRCLE 10 50 20 60
        LINE SOLID
        .
        LINE COLOR G50
        SEMI-CIRCLE 10 80 20 90
        LINE COLOR BLACK
        .
        REGION FILL ON
        SEMI-CIRCLE 30 30 35 35
        REGION FILL COLOR G50
        SEMI-CIRCLE 40 40 60 60
        .
        REGION FILL COLOR BLACK
        REGION PATTERN D1D2
        REGION PATTERN SPACING 3
        SEMI-CIRCLE 75 60 90 72