

**DIAMOND****PURPOSE**

Draws a diamond.

**DESCRIPTION**

The 3 pairs of coordinates define the (x,y) values for one major diameter endpoint, one minor diameter endpoint, and the other major diameter endpoint (respectively) of the diamond.

**SYNTAX**

DIAMOND <x1> <y1> <x2> <y2> <x3> <y3>

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

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

<x2> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the minor diameter endpoint;

<y2> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the minor diameter endpoint;

<x3> is a number or parameter in the range 0 to 100 that specifies the x coordinate for the other major diameter endpoint;

and <y3> is a number or parameter in the range 0 to 100 that specifies the y coordinate for the other major diameter endpoint.

**EXAMPLES**

DIAMOND 30 50 50 40 70 50

DIAMOND 30 30 50 40 70 70

DIAMOND X1 Y1 X2 Y2 X3 Y3

DIAMOND 50 50 X2 Y2 70 50

**NOTE 1**

The line style (i.e., solid, dash), color, and thickness of the diamond are controlled by the LINE, LINE COLOR, and LINE THICKNESS commands. The REGION FILL command can be used to generate solid filled diamonds and the REGION PATTERN command can be used to generate cross hatch patterns.

**NOTE 2**

If you use a software font, diamonds can be embedded in text (e.g., the LEGEND or TEXT command) by entering the string DIAM(). To get filled diamonds, enter LEGEND FILL SOLID (for legends) or FILL ON (for TEXT). Diamonds can also be used as plot characters (e.g., CHARACTERS DIAMOND), in which case the attributes are set with the various CHARACTER commands.

**DEFAULT**

None

**SYNONYMS**

None

**RELATED COMMANDS**

ARROW	=	Draws an arrow.
TRIANGLE	=	Draws a triangle.
BOX	=	Draws a box.
HEXAGON	=	Draws a hexagon.
CIRCLE	=	Draws a circle.
SEMI-CIRCLE	=	Draws a semi-circle.
ARC	=	Draws an arc.
ELLIPSE	=	Draws an ellipse.
OVAL	=	Draws an oval.
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

## PROGRAM

```
DIAMOND 10 20 15 10 20 20
DIAMOND 60 30 70 10 80 30
THICKNESS 0.7
DIAMOND 10 40 15 30 20 40
THICKNESS 0.2
LINE DASH
DIAMOND 10 60 15 55 20 60
LINE SOLID
LINE COLOR G50
DIAMOND 10 90 15 80 20 90
LINE COLOR BLACK
REGION FILL ON
DIAMOND 30 35 32.5 30 35 35
REGION FILL COLOR G50
DIAMOND 40 60 50 40 60 60
REGION FILL COLOR BLACK
REGION PATTERN D1D2
DIAMOND 80 70 84 65 88 70
FILL ON
FONT SIMPLEX
THICKNESS 0.1
MOVE 40 80
TEXT DIAM() DRAW A DIAMOND WITH THE TEXT COMMAND
```

