

PostScript Language

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PostScript 폰트

Roman

Italic

Bold

Extended

Condensed

Obliqued

PostScript 문자열

typography

```
/Times-Roman findfont  
15 scalefont
```

```
setfont  
72 200 moveto  
(typography) show  
showpage
```

PostScript 문자열

```
/showGorilla    % stack: x y ---
```

Gorilla

```
{ moveto (Gorilla) show }def
```

```
/Times-Roman findfont 6 scalefont setfont
```

```
72 300 showGorilla
```

Gorilla

```
/Times-Roman findfont 10 scalefont setfont
```

```
72 275 showGorilla
```

Gorilla

```
/Times-Roman findfont 15 scalefont setfont
```

```
72 250 showGorilla
```

Gorilla

```
/Times-Roman findfont 20 scalefont setfont
```

```
72 225 showGorilla
```

```
showpage
```

PostScript 폰트

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Typefaces

Τυπεφασ

72 vpos moveto %vpos starts as 720

/Times-Roman printword

/Times-Bold printword

/Times-Italic printword

/Times-BoldItalic printword

newline

/Helvetica printword

/Helvetica-Bold printword

/Helvetica-Oblique printword

/Helvetica-BoldOblique printword

newline

/Courier printword

/Courier-Bold printword

/Courier-Oblique printword

/Courier-BoldOblique printword

newline

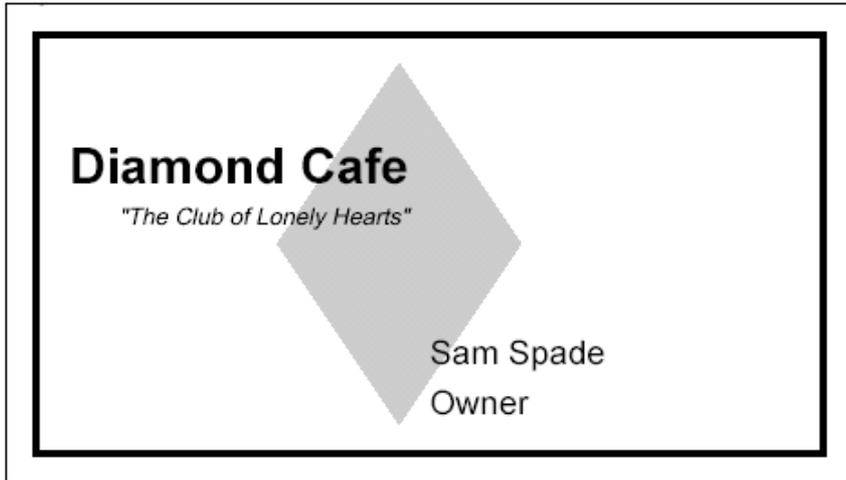
/Symbol printword

showpage

사용된 프러시저들

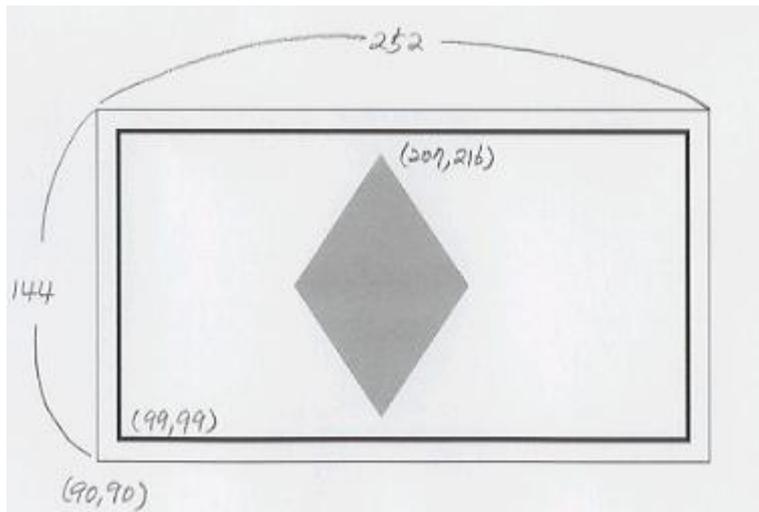
```
%----- Define Procedures -----  
/vpos 720 def % vertical position variable  
/word (Typefaces) def % string variable  
  
/choosefont % Stack: typeface-name  
{ findfont 15 scalefont setfont } def  
  
/newline  
{ /vpos vpos 15 sub def %decrease vpos  
72 vpos moveto } def %go to that line  
  
/printword %stk: typeface-name  
{ choosefont %set font  
word show %show "typefaces"  
newline } def %go to next line
```

명함 글자의 폰트정의



```
%----- Variables -----  
/MainFont  
  /Helvetica-Bold findfont 15 scalefont def  
/SloganFont  
  /Helvetica-Oblique findfont 7 scalefont def  
/OwnerFont  
  /Helvetica findfont 10 scalefont def  
%----- Procedures -----  
/rightshow      % stk: string  
{ dup stringwidth pop          %get length of string  
  120 exch sub %calc. white space  
  0 rmoveto    %Move over that much  
  show } def   %show string
```

명함 테두리

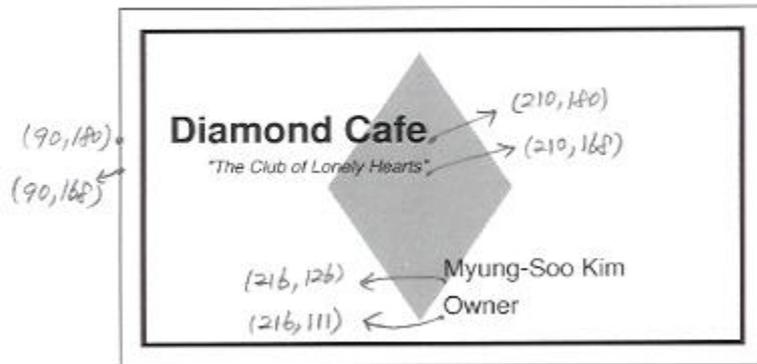


```
/CardOutline    %Print card's outline
{ newpath
  90 90 moveto
  0 144 rlineto
  252 0 rlineto
  0 -144 rlineto
  closepath
  .5 setlinewidth
  stroke } def

/doBorder      %Print card's border
{ 99 99 moveto
  0 126 rlineto %Border: 126 pts high
  234 0 rlineto % & 234 points wide
  0 -126 rlineto
  closepath
  2 setlinewidth %2-point-wide line
  stroke } def

/Diamond
{ newpath      %define & fill
  207 216 moveto          % a diamond-shaped
  36 -54 rlineto          % path
  -36 -54 rlineto
  -36 54 rlineto
  closepath
  .8 setgray fill } def
```

명함 내용



```
namecard2.ps - 메모장
파일(F) 편집(E) 서식(O) 도움말(H)

fill} def

/doText
{0 setgray

90 180 moveto
MainFont setfont
(Diamond Cafe) rightshow

90 168 moveto
SloganFont setfont
("The Club of Lonely Hearts") rightshow

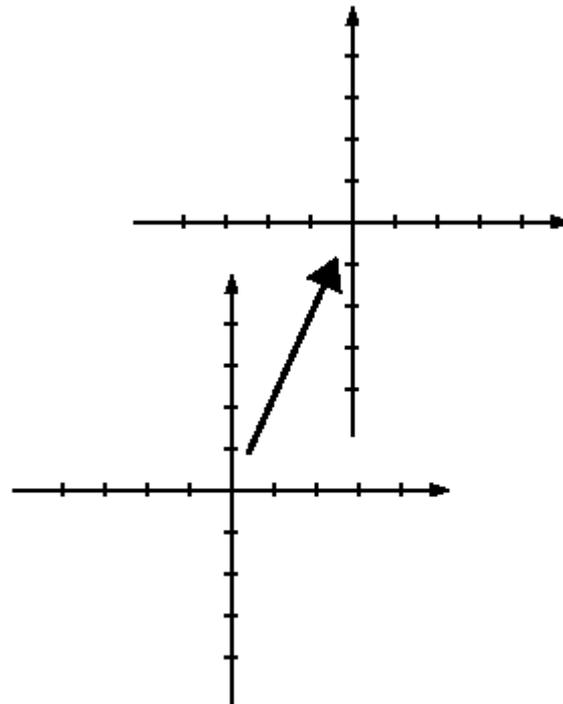
216 126 moveto
OwnerFont setfont
(Myung-Soo Kim) show

216 111 moveto
(Owner) show
} def

%--- Main Program ---
CardOutline
doBorder
Diamond
doText

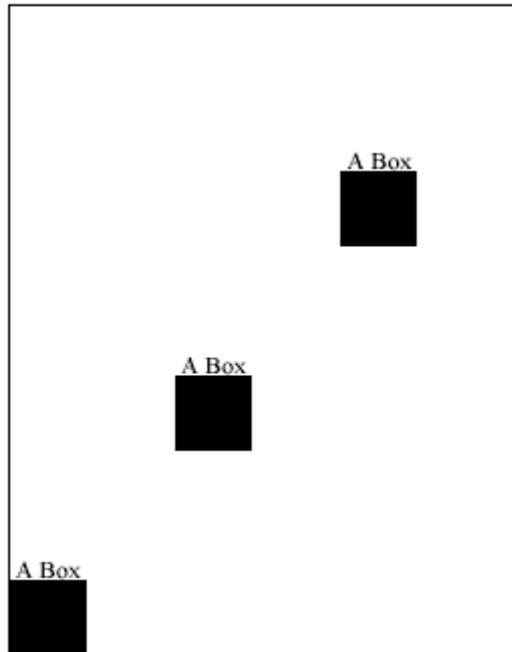
showpage
```

좌표변환 (평행이동)



Translation

좌표변환 (평행이동)



Translated Squares

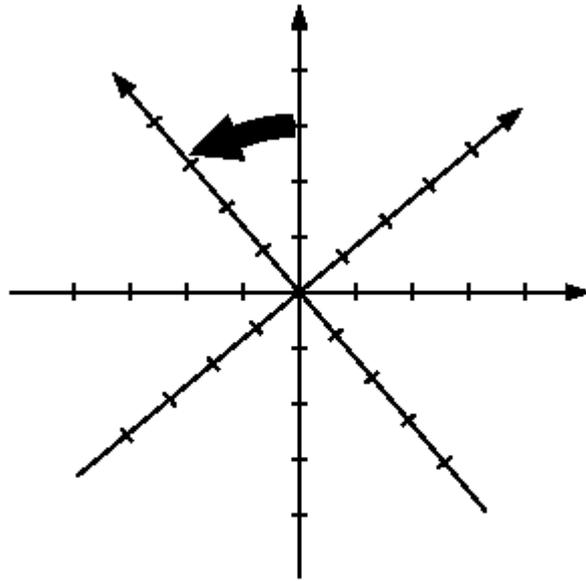
```
/Times-Roman findfont 30 scalefont setfont
```

```
/square      %procedure to draw a  
{ newpath    % filled square  
  0 0 moveto  
  90 0 lineto %define a square path  
  90 90 lineto  
  0 90 lineto  
  closepath fill %fill it  
  6 92 moveto % & label it  
  (A Box) show } def
```

```
square      %do a square  
200 250 translate %move coord. sys.  
square      %do another square  
200 250 translate %and move again  
square      %do a third square
```

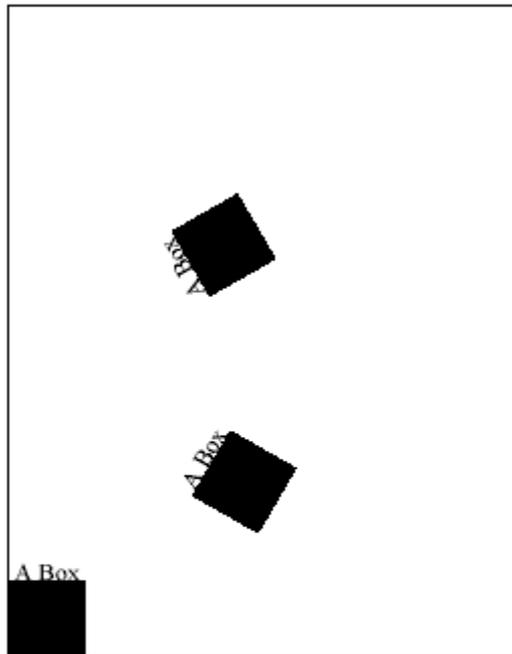
```
showpage
```

좌표변환 (회전이동)



Rotation

좌표변환 (회전이동)



Rotated Squares

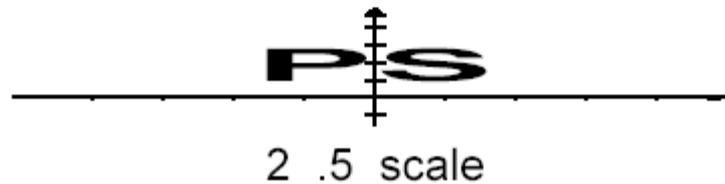
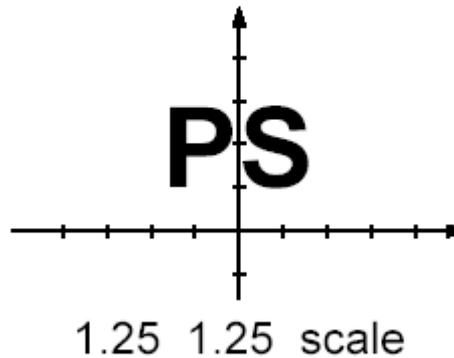
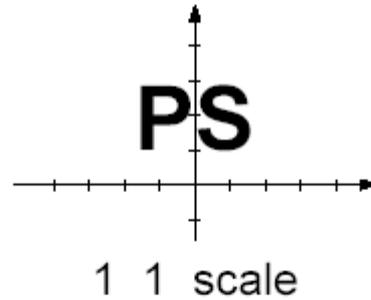
```
/Times-Roman findfont 30 scalefont setfont
```

```
/square          %procedure from  
{ newpath       % previous program  
  0 0 moveto  
  90 0 lineto  
  90 90 lineto  
  0 90 lineto  
  closepath fill  
  6 92 moveto  %Label the box  
  (A Box) show } def
```

```
square          %do a square  
300 150 translate      %move coord. sys.  
60 rotate         %and rotate it  
square          %do it again...  
300 150 translate  
60 rotate  
square          %do a third square
```

```
showpage
```

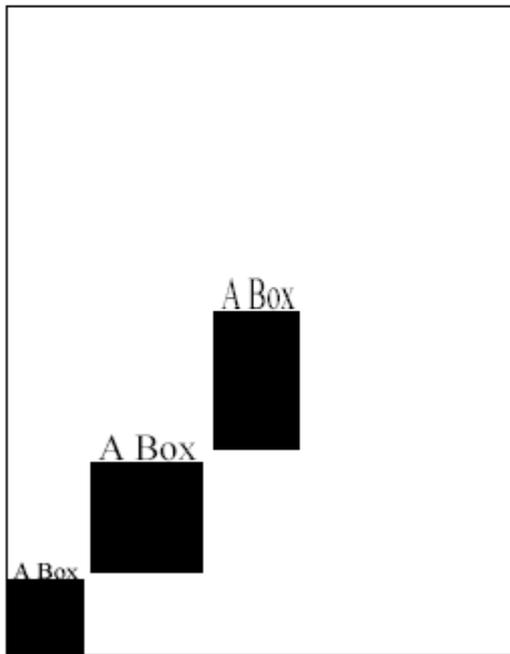
좌표변환 (크기변환)



좌표변환 (크기변환)

```
/Times-Roman findfont 30 scalefont setfont
```

```
/square      %procedure to draw a  
{ newpath   % filled square  
  0 0 moveto  
  90 0 lineto  
  90 90 lineto  
  0 90 lineto  
  closepath fill  
  6 92 moveto %Label the box  
  (A Box) show } def
```

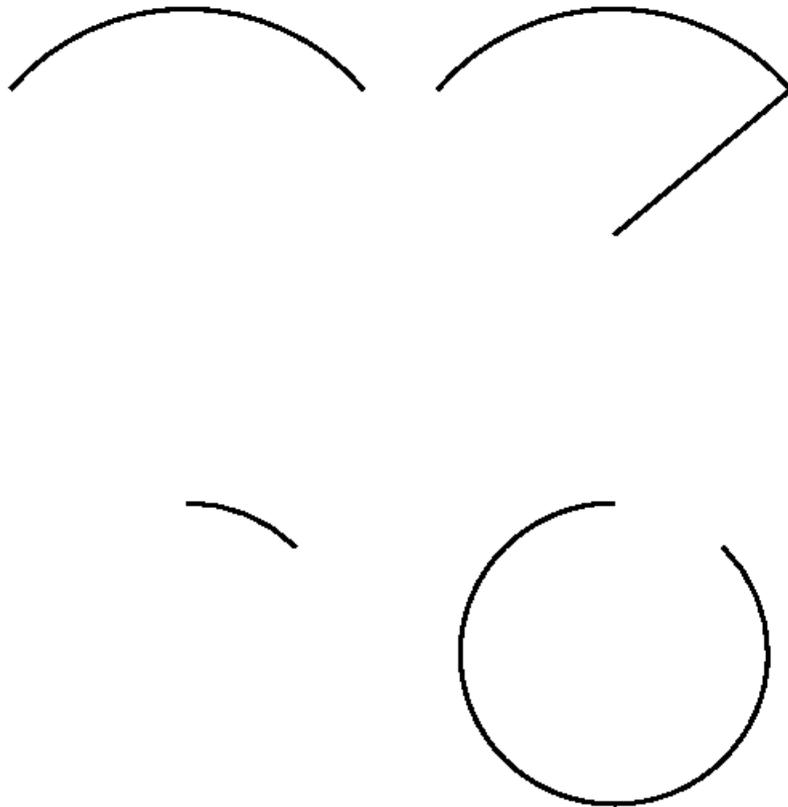


Scaled Squares

```
square      %do a square  
100 100 translate  
1.5 1.5 scale  
square  
100 100 translate  
.75 1.25 scale %non-uniform scaling  
square
```

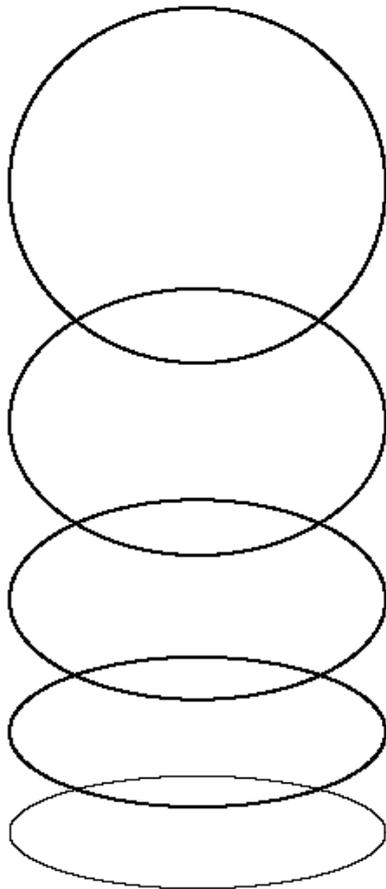
```
showpage
```

원호그리기



```
circle.ps - 메모장
파일(F) 편집(E) 서식(O) 도움말(H)
%!
2 2 scale
newpath
  100 150 36 45 90 arc
stroke
newpath
  200 150 36 45 90 arcn
stroke
newpath
  100 250 54 40 140 arc
stroke
newpath
  200 250 moveto
  200 250 54 40 140 arc
stroke
```

원과 타원



Ellipses

```
/doACircle  
{ 0 0 54 0 360 arc stroke } def
```

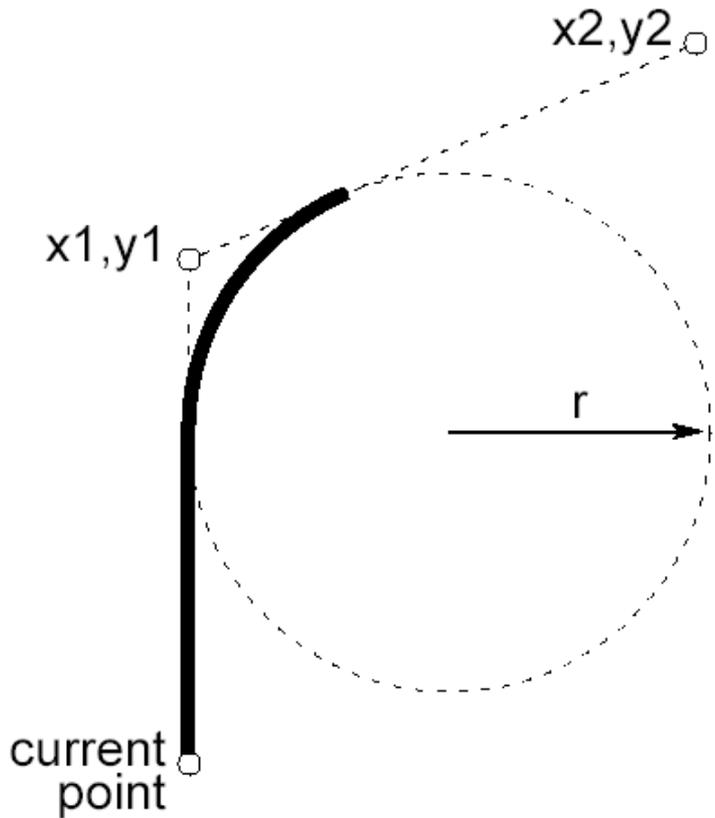
```
/doAnEllipse  
{ 1 .75 scale  
doACircle  
stroke } def
```

```
300 500 translate doACircle
```

```
4 {0 -72 translate  
doAnEllipse} repeat
```

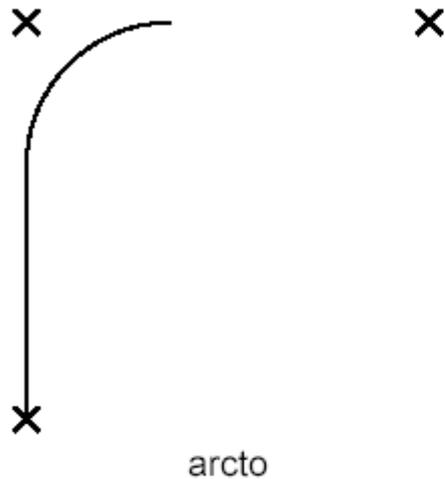
```
showpage
```

원호로 모서리 깎기



x1 y1 x2 y2 r arcto

원호로 모서리 깎기



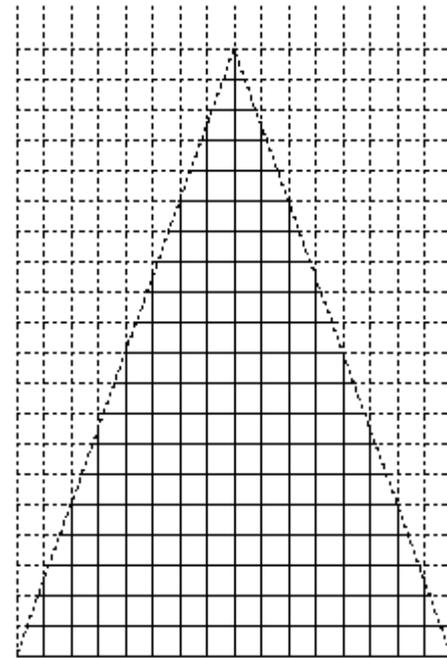
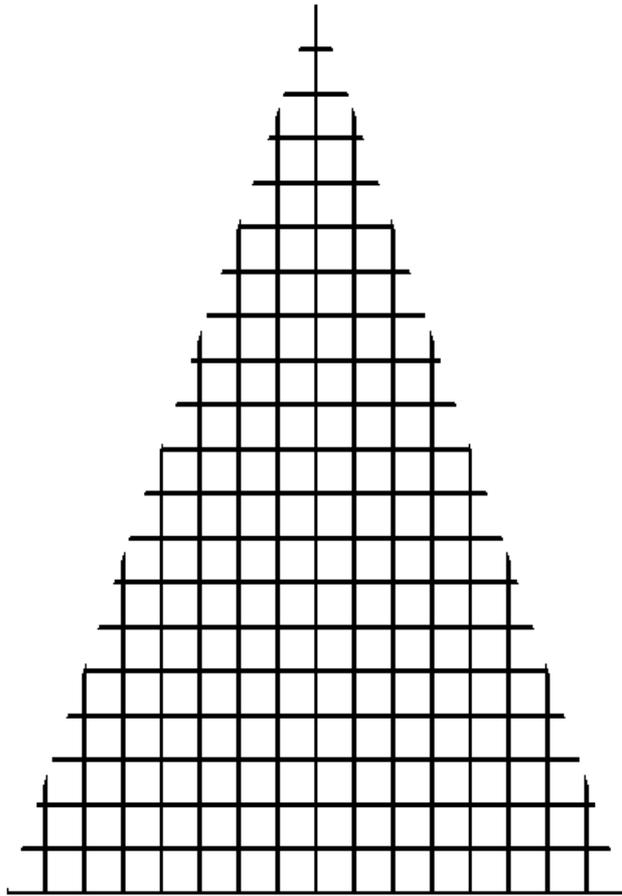
```
/DrawAnX  
{ 3 3 moveto -6 -6 rlineto  
  0 6 moveto 6 -6 rlineto  
  stroke } def
```

```
50 50 moveto DrawAnX  
50 150 moveto DrawAnX  
150 150 moveto DrawAnX
```

```
50 50 moveto  
50 150 150 150 36 arco  
4 {pop} repeat  
stroke
```

```
showpage
```

클리핑



Only the part of the grid that falls within the triangular clipping path reaches the current page.

클리핑 경로설정

```
% ---- Procedures ----  
/trianglepath  
{ newpath  
  0 0 moveto  
  144 0 lineto  
  72 200 lineto  
  
  closepath } def
```

```
/verticals  
{ newpath  
  0 9 144  
  { 0 moveto  
    0 216 rlineto } for  
  stroke } def  
/horizontal  
{ newpath  
  0 10 200  
  { 0 exch moveto  
    144 0 rlineto } for  
  stroke } def  
% ---- Begin Program ---  
230 300 translate  
trianglepath clip  
verticals          %Do grid  
horizontal
```

문자열로 클리핑한 경우

StarLines

```
newpath  
0 0 moveto  
(StarLines) true  
charpath clip
```

선분의 끝부분 마무리



Linecap = 0; Butt caps



Linecap = 1; Round caps



Linecap = 2; Projecting caps



```
linecap.ps - 메모장
파일(F) 편집(E) 서식(O) 도
%!
newpath
  7 setlinewidth

  144 216 moveto
  144 0 rlineto
  0 setlinecap
stroke

  144 144 moveto
  144 0 rlineto
  1 setlinecap
stroke

  144 72 moveto
  144 0 rlineto
  2 setlinecap

stroke
showpage
```

선분의 연결부분 마무리



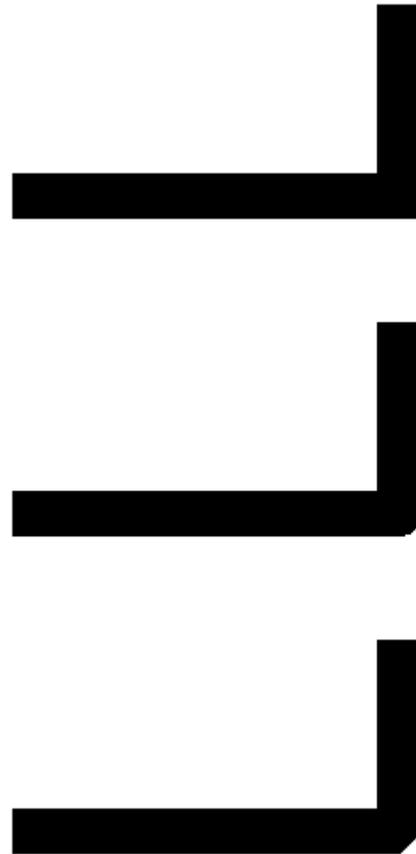
Linejoin = 0; Miter joins



Linejoin = 1; Round joins



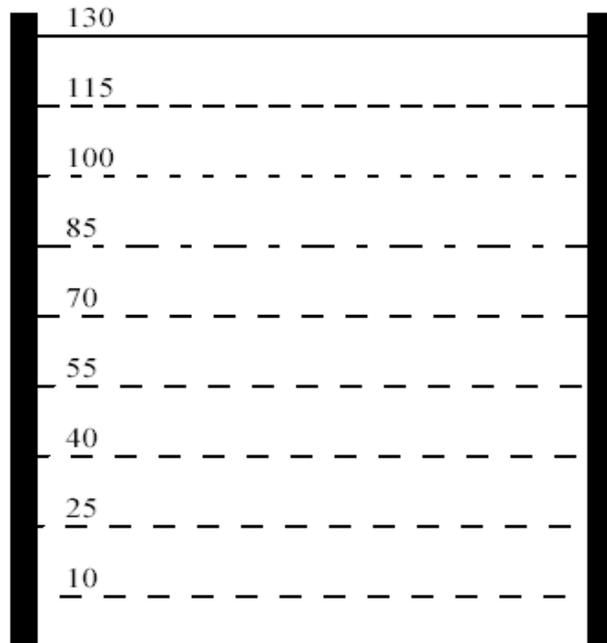
Linejoin = 2; Bevel joins



```
linejoin.ps - 메모장
파일(F) 편집(E) 서식(O)
newpath
  17 setlinewidth
  144 340 moveto
  144 0 rlineto
  0 72 rlineto
  0 setlinejoin
stroke
  144 220 moveto
  144 0 rlineto
  0 72 rlineto
  1 setlinejoin
stroke
  144 100 moveto
  144 0 rlineto
  0 72 rlineto
  2 setlinejoin
stroke
showpage
```

점선 그리기

[3 5 1 5] 0 setdash



```
.5 setlinewidth  
[ ] 0 setdash doLine  
[4 2] 0 setdash doLine  
[2 4] 0 setdash doLine  
[6 4 2 4] 0 setdash doLine  
[4 4] 0 setdash doLine  
[4 4] 1 setdash doLine  
[4 4] 2 setdash doLine  
[4 4] 3 setdash doLine  
[4 4] 4 setdash doLine
```

showpage