1 尺规标记

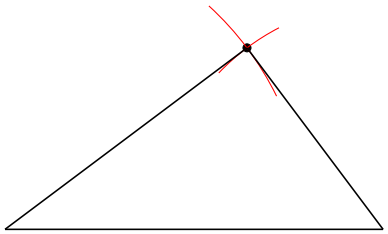
1.1 \tkzCompass命令：绘制尺规标记

\tkzCompass[⟨ 命令选项⟩](⟨A,B⟩)

该命令绘制尺规标记，即一小段圆弧。使用该命令时，须指定圆心。可以使用 Ti*k*Z 的 style、color、line thickness 等样式设置标记外观。
可以使用length或delta选项指定标记长度。

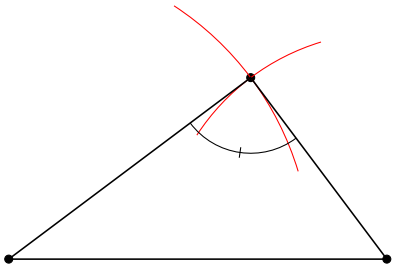
选项	默认值	含义
delta	0 (deg)	延伸长度 (度)
length	1 (cm)	圆弧长度 (cm)

1.1.1 length选项示例



```
\begin{tikzpicture}
  \tkzDefPoint(1,1){A}
  \tkzDefPoint(6,1){B}
  \tkzInterCC[R](A,4cm)(B,3cm)
  \tkzGetPoints{C}{D}
  \tkzDrawPoint(C)
  \tkzCompass[color=red,length=1.5](A,C)
  \tkzCompass[color=red](B,C)
  \tkzDrawSegments(A,B A,C B,C)
\end{tikzpicture}
```

1.1.2 delta选项示例



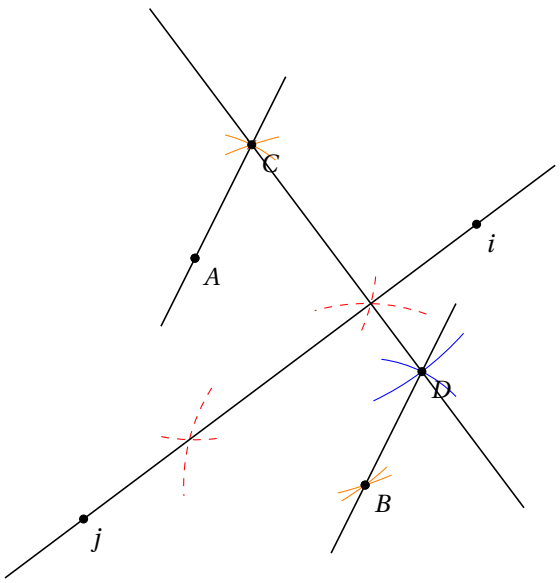
```
\begin{tikzpicture}
  \tkzDefPoint(0,0){A}
  \tkzDefPoint(5,0){B}
  \tkzInterCC[R](A,4cm)(B,3cm)
  \tkzGetPoints{C}{D}
  \tkzDrawPoints(A,B,C)
  \tkzCompass[color=red,delta=20](A,C)
  \tkzCompass[color=red,delta=20](B,C)
  \tkzDrawPolygon(A,B,C)
  \tkzMarkAngle(A,C,B)
\end{tikzpicture}
```

1.2 \tkzCompasss命令：绘制多个尺规标记

\tkzCompasss[⟨ 命令选项⟩](⟨pt1,pt2, pt3,pt4,…⟩)

☞ 注意：参数是点对列表。

选项	默认值	含义
delta	0	延伸角度
length	1	圆弧长度



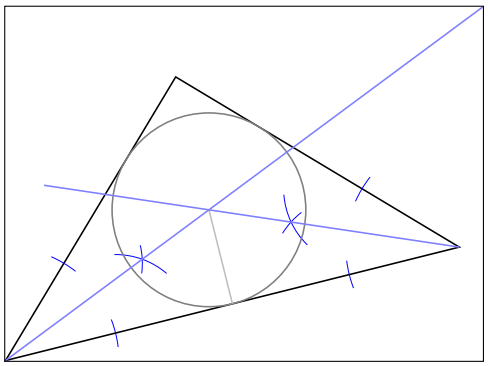

```
\begin{tikzpicture}[scale=.75]
  \tkzDefPoint(2,2){A}
  \tkzDefPoint(5,-2){B}
  \tkzDefPoint(3,4){C}
  \tkzDrawPoints(A,B)
  \tkzDrawPoint[color=red,shape=cross out](C)
  \tkzCompasss[color=orange](A,B A,C B,C C,B)
  \tkzShowLine[mediator,color=red,
                      dashed,length = 2](A,B)
  \tkzShowLine[parallel = through C,
                    color=blue,length=2](A,B)
  \tkzDefLine[mediator](A,B)
  \tkzGetPoints{i}{j}
  \tkzDefLine[parallel=through C](A,B)
  \tkzGetPoint{D}
  \tkzDrawLines[add=.6 and .6](C,D A,C B,D)
  \tkzDrawLines(i,j) \tkzDrawPoints(A,B,C,i,j,D)
  \tkzLabelPoints(A,B,C,i,j,D)
\end{tikzpicture}
```

1.3 \tkzSetUpCompass命令：设置尺规标记样式

\tkzSetUpCompass[⟨ 命令选项⟩]

选项	默认值	含义
line width	0.4pt	线宽
color	black!50	颜色
style	solid	线型：solid、dashed、dotted、…

1.3.1 示例



```
\begin{tikzpicture}[showbi/.style={bisector,
                    size=2,gap=3}, scale=.75]
  \tkzSetUpCompass[color=blue,line width=.3 pt]
  \tkzDefPoints{0/1/A, 8/3/B, 3/6/C}
  \tkzDrawPolygon(A,B,C)
  \tkzDefLine[bisector](B,A,C) \tkzGetPoint{a}
  \tkzDefLine[bisector](C,B,A) \tkzGetPoint{b}
  \tkzShowLine[showbi](B,A,C)
  \tkzShowLine[showbi](C,B,A)
  \tkzInterLL(A,a)(B,b) \tkzGetPoint{I}
  \tkzDefPointBy[projection= onto A--B](I)
  \tkzGetPoint{H}
  \tkzDrawCircle[radius,color=gray](I,H)
  \tkzDrawSegments[color=gray!50](I,H)
  \tkzDrawLines[add=0 and -.2,color=blue!50](A,a B,b)
  \tkzShowBB
\end{tikzpicture}
```