```
CHEATSHEET_EUCLIDE
                                                                     towards, rotate, R , R with nodes
Part II: drawing.
Conventions :
                                                                     Arcs
Options in [...] E for Euclide T for TikZ
                                                                     arc choice : 1,11,111
A,B,C,... are names of points
                                                                     \tkzDrawArc[T](A,B)(C) or towards
a angle d length and r radius n number
                                                                     \tkzDrawArc[rotate,T](A,B)(a)
    {} for new point () for coordinates or defined point
                                                                     \t \T (A,r)(a,a')
                                                                     \tkzDrawArc[angles,T](A,B)(a,a')
                                                                    \tkzDrawArc[R with nodes,T](A,r)(B,C)
DRAWING
                                                                    {\color{red}option : delta=n}
Points
\tkzDrawPoint[OT](A)
                                                                    \tkzCompass[ET](A,B)
\tkzDrawPoints(A1,A2,...)
                                                                    \tkzCompasss[ET](A,B C,D ...)
Segments and Lines
                                                                     CLIPPING
\tkzDrawSegment[ET](A,B)
                                                                     \tkzClipOutCircle[radius or R](A,B)
dim= \{label,d,T\} and add= \{n1 \text{ and } n2\}
                                                                     \tkzClipCircle[radius or R](A,B)
\tkzDrawSegments[ET](A,B C,D ...)
                                                                    \tkzClipPolygon(A,B,C,...)
\tkzDrawPolySeg[T](A,B,...)
                                                                     \tkzClipOutPolygon(A,B,C,...)
                                                                    \tkzClipSector[T](A,B)(C)
\tkzDrawLine[E,T](A,B)
\tkzDrawLine[median,T](A,B,C)
\tkzDrawLine[altitude,T](A,B,C)
                                                                     FILLING -
\tkzDrawLine[bisector,T](A,B,C)
                                                                     \tkzFillPolygon[T](A,B,C,...)
\tkzDrawLines[T](A,B C,D ...)
                                                                     \tkzFillCircle[T](A,B)
                                                                    \tkzFillAngle[T](A,B,C)
                                                                     \tkzFillAngles(A,B,C D,E,F ...)
Polygons
\tkzDrawPolygon[line style,T](A,B,C,...)
                                                                     \tkzFillSector[T](A,B)(C)
                                                                     towards rotate R
Circles
\tkzDrawCircle(A,B) center A through B
                                                                    LABELLING
\tkzDrawCircle[R](A,n cm) center A radius n cm
\tkzDrawCircle[diameter](A,B) diameter AB
                                                                     \tkzLabelPoint[T](A){$label$}
                                                                    \tkzLabelPoints[T](#2)
                                                                    \tkzAutoLabelPoints[center = A,dist= n](A,B,C,...)
Sector
\tkzDrawSector[#1](#2,#3)(#4)
                                                                    \tkzLabelSegment[T](A,B){label}
```

```
\tkzLabelSegments[T](A,B,...)
\tkzLabelRegPolygon[T,sep=1.1](0){A,B,...} center 0
\tkzLabelCircle[T](A,B)(C){label}
\tkzLabelAngle(A,B,C)
\tkzLabelAngles(A,B,C D,E,F ...)
SHOWING
\tkzShowLine[ET](A,B) or (A,B,C)
mediator
perpendicular =through A}
orthogonal
               = through A
 parallel
              = through A
bisector
         K=1
         gap = 2,
         ratio = .5,
         length = 1,
         size = 1
\tkzShowTransformation[ET](A)
reflection = over A--B
```

symmetry = center A

projection= onto A--B
translation = from A to B
K length ratio gap size