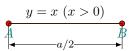
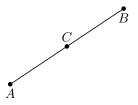
```
\usepackage{tikz}
  \usepackage{tkz-euclide}
  % Paint segment
  \begin{tikzpicture}[>=latex]
    \tkzDefPoints{0/0/A,3/0/B}
   \tkzDrawPoints[color=black,fill=red,size=4](A,B)
    \tkzLabelPoints[below,color=teal](A,B)
    \tkzDrawSegments[style=orange](A,B)
   \tkzDrawSegment[dim={$a/2$,-16pt,}](A,B)
    \text{\tkzLabelSegments[above](A,B)} = x (x>0)
    \t 0/-4/C,3/-4/D
13
    \tkzDrawPoints[color=teal](C,D)
    \tkzDrawSegments[orange,->](C,D)
  \end{tkzpicture}
1 % Paint line
  \begin{tikzpicture}
     \tkzDefPoints{0/0/A,1/0/B}
     \tkzDrawPoints(A,B)
     \tkzLabelPoints[below](A,B)
     \tkzDrawSegments(A,B)
     \tkzDefPoints{0/0/A,1/0/B}
    \tkzDrawLines[add=0.5 and 0.3](A,B)
     \tkzLabelPoints[below](A,B)
     \tkzDrawPoints(A,B)
11 \end{tkzpicture}
1 % Paint Midpoint
2 \begin{tikzpicture}
    \tkzDefPoints{0/0/A,3/2/B}
    \tkzDrawSegments(A,B)
    \tkzLabelPoints[below](A,B)
   \tkzDrawPoints(A,B)
   \tkzDefMidPoint(A,B) \tkzGetPoint{C}
    \tkzDrawPoints(C)
    \tkzLabelPoints[above](C)
10 \end{tkzpicture}
1 % Getpoint
2 \begin{tikzpicture}
    \tkzDefPoints{0/0/A,6/0/B}
    \tkzDrawSegments(A,B)
    \tkzLabelPoints[below](A,B)
    \tkzDrawPoints(A,B)
    \tkzDefMidPoint(A,B) \tkzGetPoint(C)
    \tkzDrawPoints(C)
    \tkzLabelPoints[below](C)
    \tkzDefPointWith[linear,K=0.333](A,B) \tkzGetPoint{D}
    \tkzDrawPoints(D)
    \tkzLabelPoints[above](D)
   \tkzDefPointWith[linear, K=0.333](B,A) \tkzGetPoint{E}
13
    \tkzDrawPoints(E)
14
    \tkzLabelPoints[above](E)
16 \end{tkzpicture}
```











```
1 \begin{tikzpicture}
    \tkzDefPoints{0/0/A,5/1/B,2.5/3.75/C}
    \t \Delta = \mathbb{P}_0  (A) {$A(0,0)$}
    \tkzLabelPoint[below](B){$B(5,1)$}
    \t C(2.5,3.75)
    \tkzDrawPolygon[red](A,B,C)
    \tkzMarkAngles[mark=none, size=.3](B, A, C, A, C, B, C, B, A)
    \tkzLabelAngle[pos=.6](B,A,C){$\alpha$}
                                                                                   C(2.5, 3.75)
    \tkzLabelAngle[pos=.6](A,C,B){$\beta$}
    \tkzLabelAngle[pos=.8,fill=red](C,B,A){$36^\circ$}
10
                                                                                        B
    \tkzDefMidPoint(A,B) \tkzGetPoint{E}
11
    \tkzDefMidPoint(C,B) \tkzGetPoint{F}
12
    \tkzDefMidPoint(A,C) \tkzGetPoint{G}
    \tkzDrawSegments[dashed](C,E B,G A,F)
14
    \tkzLabelPoints[below](E)
15
    \tkzLabelPoints[left](G)
16
                                                                                                   B(5,1)
    \tkzLabelPoints[right](F)
17
                                                                                           D
    \tkzInterLL(A,F)(C,E) \tkzGetPoint{H}
18
                                                                       A(0,0)
    \tkzLabelPoints[below](H)
19
    \tkzDrawPoints(H)
20
    % projection mode
    \tkzDefPointBy[projection=onto A--B](C) \tkzGetPoint{D}
22
    \tkzLabelPoints[below](D)
23
    \tkzDrawSegments[dashed](C,D)
24
    \tkzMarkRightAngles[mark=none,size=.3,fill=red,opacity=0.5](C,D,A)
  \end{tkzpicture}
```