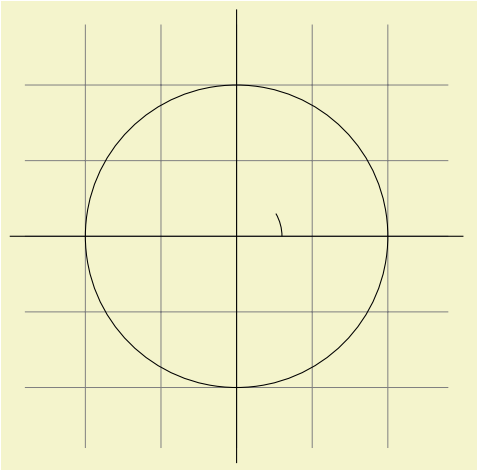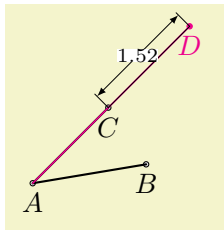```
\begin{tikzpicture}
  \filldraw [gray] (0,0) circle [radius=2pt]
                   (1,1) circle [radius=2pt]
                   (2,1) circle [radius=2pt]
                   (2,0) circle [radius=2pt];
  \draw (0,0) .. controls (1,1) and (2,1) .. (2,0);
  \node[draw, circle, inner sep=2pt, pin={60:A}] at (2,1) {};
\end{tikzpicture}
```



```
\begin{tikzpicture}[scale=2]
  \draw[step=.5cm,gray,very thin] (-1.4,-1.4) grid (1.4,1.4);
  \draw (-1.5,0) -- (1.5,0);
  \draw (0,-1.5) -- (0,1.5);
  \draw (0,0) circle [radius=1cm];
  \draw (3mm,0mm) arc [start angle=0, end angle=30, ←
↪ radius=3mm];
\end{tikzpicture}
```



```
\begin{tikzpicture}
  % https://ask.latexstudio.net/ask/question/17889.html @70550
  \tkzDefPoints{0/0/A, 1.5/0.25/B, 1/1/C}
  \tkzDrawPoints(A,B,C)
  \tkzLabelPoints(A,B,C)
  \tkzDrawSegments[thick](A,B A,C)
  % 计算 |AB| 的长度
  \tkzCalcLength(A,B)
  \tkzGetLength{dAB}
  % 从 C 点反向延长距离为\dAB的长度
  \tkzDefPointWith[linear normed,K=-\dAB](C,A)
  \tkzGetPoint{D}
  \tkzDrawSegment[magenta,semithick](A,D)
  \tkzDrawPoints[magenta](D)
  \tkzLabelPoints[magenta](D)
  \tkzDrawSegment[dim={\pgfmathprintnumber\dAB,6pt,}](C,D)
\end{tikzpicture}
```

intended blank


```
1  \begin{tikzpicture}
2    % https://ask.latexstudio.net/ask/question/17889.html @70550
3    \tkzDefPoints{0/0/A, 2/0/B}
4    \tkzDrawPoints(A,B)
5    \tkzDrawSegment[-Stealth](A,B)
6    \tkzDefPointWith[linear,K=1.5](A,B)
7    \tkzGetPoint{C}
8    \tkzDefPointWith[linear,K=.75](A,B)
9    \tkzGetPoint{D}
```

```
10    \tkzDefPointWith[linear,K=-.5](A,B)
11    \tkzGetPoint{E}
12    \tkzDrawPoints[violet](C) % 1.5
13    \tkzDrawPoints[cyan](D) % .75
14    \tkzDrawPoints[olive](E)% -.5                    2
15    \tkzLabelPoints[above](A,B,C,D,E)
16    \tkzDrawLine[gray,dashed,add=1 and 1](A,B)
17  \end{tikzpicture}
```

```
10    \tkzDefPointWith[linear,K=-.5](A,B)
11    \tkzGetPoint{E}
12    \tkzDrawPoints[violet](C) % 1.5
13    \tkzDrawPoints[cyan](D) % .75
14    \tkzDrawPoints[olive](E)% -.5
15    \tkzLabelPoints[above](A,B,C,D,E)
16    \tkzDrawLine[gray,dashed,add=1 and 1](A,B)
```