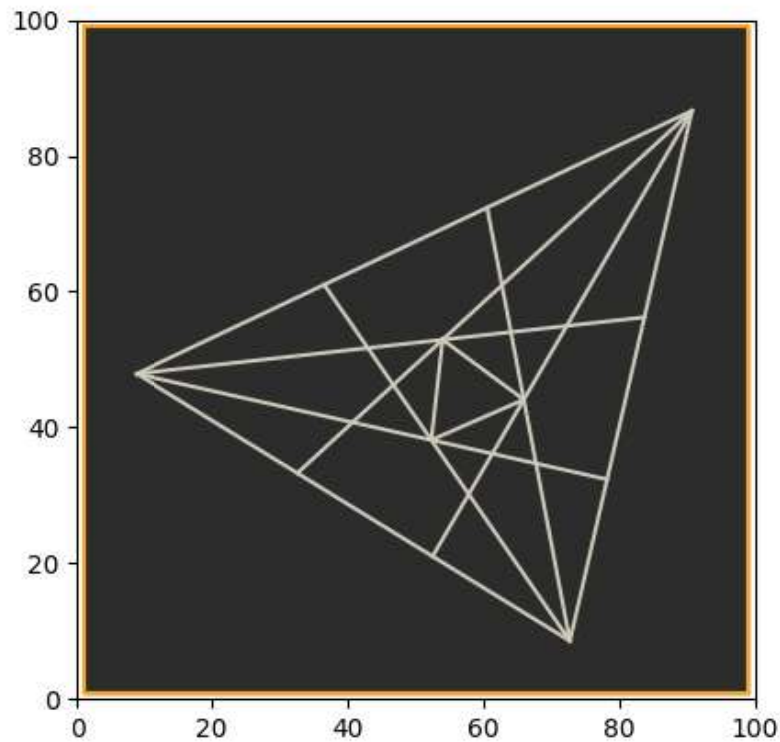


Figure 1



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File Edit Options Buffers Tools Python Help



```
print "x_L = "+str(xl) ;
print "y_L = "+str(yl) ;
print "x_X = "+str(xx) ;
print "y_X = "+str(yx) ;
print "x_D = "+str(xd) ;
print "y_D = "+str(yd) ;
fig = matplotlib.pyplot.figure()
ax = fig.add_subplot(111)
matplotlib.pyplot.fill([1,99,99,1,1],[1,1,99,99,1],color='#2c2c2c') ;
matplotlib.pyplot.plot([1,99,99,1,1],[1,1,99,99,1],color='#ffa500') ;
matplotlib.pyplot.plot([xa,xb,xc,xal,[ya,yb,yc,yal, color='#cecbbc') ;
matplotlib.pyplot.plot([xn,xo,xx,xn],[yn,yo,yx,yn],color='#cecbbc') ;
matplotlib.pyplot.plot([xa,xp],[ya,yp],color='#cecbbc') ;
matplotlib.pyplot.plot([xa,xq],[ya,yq],color='#cecbbc') ;
matplotlib.pyplot.plot([xb,xt],[yb,yt],color='#cecbbc') ;
matplotlib.pyplot.plot([xb,xu],[yb,yu],color='#cecbbc') ;
matplotlib.pyplot.plot([xc,xr],[yc,yr],color='#cecbbc') ;
matplotlib.pyplot.plot([xc,xs],[yc,ys],color='#cecbbc') ;

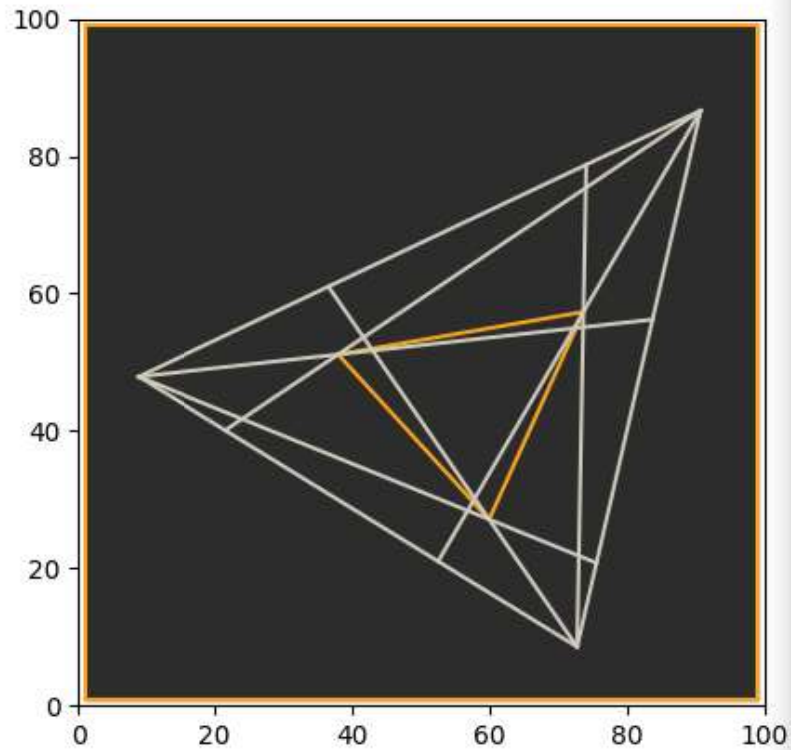
matplotlib.pyplot.xlim(0,100)
matplotlib.pyplot.ylim(0,100)

ax.set_aspect('equal')

matplotlib.pyplot.show() ;
```

--- morley-python-2-traits-seuls.py Bot L168 (Python)

Figure 1



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File Edit Options Buffers Tools Python Help



```

yba=ya-yb ;
xbc=xc-xb ;
ybc=yc-yb ;
xca=xa-xc ;
yca=ya-yc ;
xcb=xb-xc ;
ycb=yb-yc ;
anglea=angle(xab,yab,xac,yac) ;
angleb=angle(xbc,ybc,xba,yba) ;
anglec=angle(xca,yca,xcy,ycb) ;
print "angle en a "+str(anglea) ;
print "angle en b "+str(angleb) ;
print "angle en c "+str(anglec) ;
xaprime = xa+rotabs(xab,yab,anglea/6.0) ;
yaprime = ya+rotord(xab,yab,anglea/6.0) ;
xaseconde = xa+rotabs(xab,yab,anglea*2.0/3.0) ;
yaseconde = ya+rotord(xab,yab,anglea*2.0/3.0) ;
xbprime = xb+rotabs(xbc,ybc,angleb/6.0) ;
ybprime = yb+rotord(xbc,ybc,angleb/6.0) ;
xbseconde = xb+rotabs(xbc,ybc,angleb*2.0/3.0) ;
ybseconde = yb+rotord(xbc,ybc,angleb*2.0/3.0) ;
xcprime = xc+rotabs(xca,yca,anglec/6.0) ;
ycprime = yc+rotord(xca,yca,anglec/6.0) ;
xcseconde = xc+rotabs(xca,yca,anglec*2.0/3.0) ;
ycseconde = yc+rotord(xca,yca,anglec*2.0/3.0) ;

xp=intersecteabs(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
yp=intersecteord(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
xq=intersecteabs(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
yq=intersecteord(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
xr=intersecteabs(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
yr=intersecteord(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
xs=intersecteabs(xc,yc,xcprime,ycprime,xa,ya,xb,yb) ;

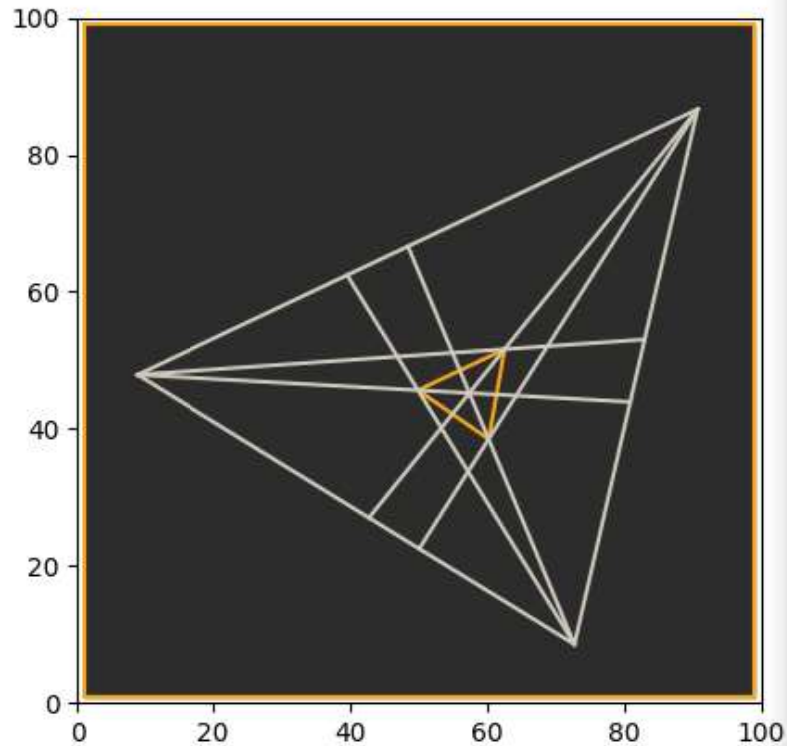
```

```

-:--- morley-python-2-traits-seuls.py 19% L76 (Python)

```

Figure 1



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File Edit Options Buffers Tools Python Help



```

yba=ya-yb ;
xbc=xc-xb ;
ybc=yc-yb ;
xca=xa-xc ;
yca=ya-yc ;
xcb=xb-xc ;
ycb=yb-yc ;
anglea=angle(xab,yab,xac,yac) ;
angleb=angle(xbc,ybc,xba,yba) ;
anglec=angle(xca,yca,xcb,ycb) ;
print "angle en a "+str(anglea) ;
print "angle en b "+str(angleb) ;
print "angle en c "+str(anglec) ;
xaprime = xa+rotabs(xab,yab,anglea/2.0) ;
yaprime = ya+rotord(xab,yab,anglea/2.0) ;
xaseconde = xa+rotabs(xab,yab,anglea*5.0/8.0) ;
yaseconde = ya+rotord(xab,yab,anglea*5.0/8.0) ;
xbprime = xb+rotabs(xbc,ybc,angleb/2.0) ;
ybprime = yb+rotord(xbc,ybc,angleb/2.0) ;
xbseconde = xb+rotabs(xbc,ybc,angleb*5.0/8.0) ;
ybseconde = yb+rotord(xbc,ybc,angleb*5.0/8.0) ;
xcprime = xc+rotabs(xca,yca,anglec/2.0) ;
ycprime = yc+rotord(xca,yca,anglec/2.0) ;
xcseconde = xc+rotabs(xca,yca,anglec*5.0/8.0) ;
ycseconde = yc+rotord(xca,yca,anglec*5.0/8.0) ;

xp=intersecteabs(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
yp=intersecteord(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
xq=intersecteabs(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
yq=intersecteord(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
xr=intersecteabs(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
yr=intersecteord(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;

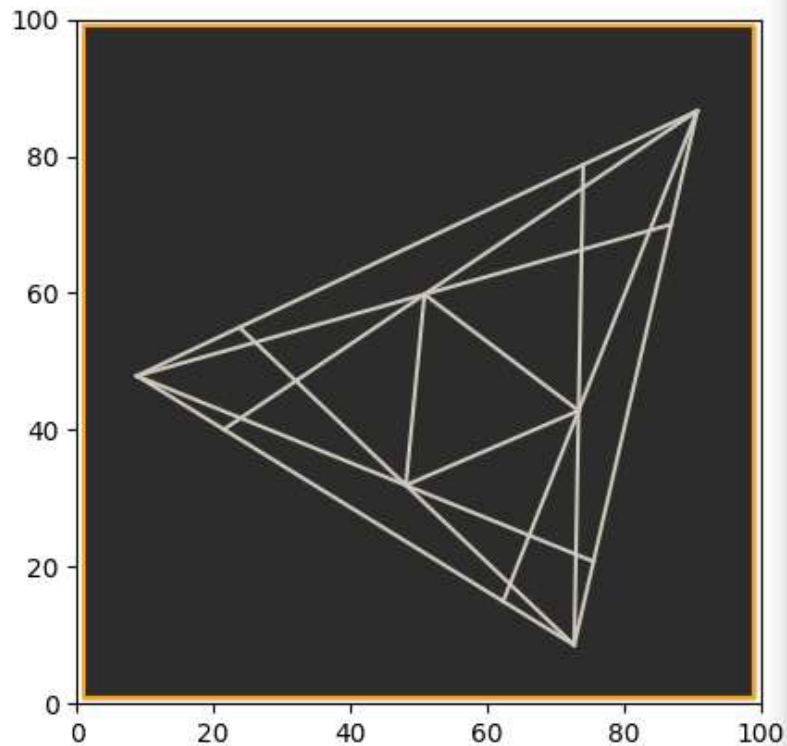
```

```
--:--- morley-python-2-traits-seuls.py 19% L77 (Python)
```

```
Wrote /home/vella-chemla/Desktop/mon-Morley-a-moi/morley-python-2-traits-seuls.py
```

```
^y
```

Figure 1



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File Edit Options Buffers Tools Python Help



```

ycb=yb-yc ;
anglea=angle(xab,yab,xac,yac) ;
angleb=angle(xbc,ybc,xba,yba) ;
anglec=angle(xca,yca,xcb,ycb) ;
print "angle en a "+str(anglea) ;
print "angle en b "+str(angleb) ;
print "angle en c "+str(anglec) ;
xaprime = xa+rotabs(xab,yab,anglea/6.0) ;
yaprime = ya+rotord(xab,yab,anglea/6.0) ;
xaseconde = xa+rotabs(xab,yab,anglea*5.0/6.0) ;
yaseconde = ya+rotord(xab,yab,anglea*5.0/6.0) ;
xbprime = xb+rotabs(xbc,ybc,angleb/6.0) ;
ybprime = yb+rotord(xbc,ybc,angleb/6.0) ;
xbseconde = xb+rotabs(xbc,ybc,angleb*5.0/6.0) ;
ybseconde = yb+rotord(xbc,ybc,angleb*5.0/6.0) ;
xcprime = xc+rotabs(xca,yca,anglec/6.0) ;
ycprime = yc+rotord(xca,yca,anglec/6.0) ;
xcseconde = xc+rotabs(xca,yca,anglec*5.0/6.0) ;
ycseconde = yc+rotord(xca,yca,anglec*5.0/6.0) ;

xp=intersecteabs(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
yp=intersecteord(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
xq=intersecteabs(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
yq=intersecteord(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
xr=intersecteabs(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
yr=intersecteord(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
xs=intersecteabs(xc,yc,xcprime,ycprime,xa,ya,xb,yb) ;
ys=intersecteord(xc,yc,xcprime,ycprime,xa,ya,xb,yb) ;
xt=intersecteabs(xb,yb,xbseconde,ybseconde,xc,yc,xa,ya) ;
yt=intersecteord(xb,yb,xbseconde,ybseconde,xc,yc,xa,ya) ;
xu=intersecteabs(xb,yb,xbprime,ybprime,xc,yc,xa,ya) ;
yu=intersecteord(xb,yb,xbprime,ybprime,xc,yc,xa,ya) ;

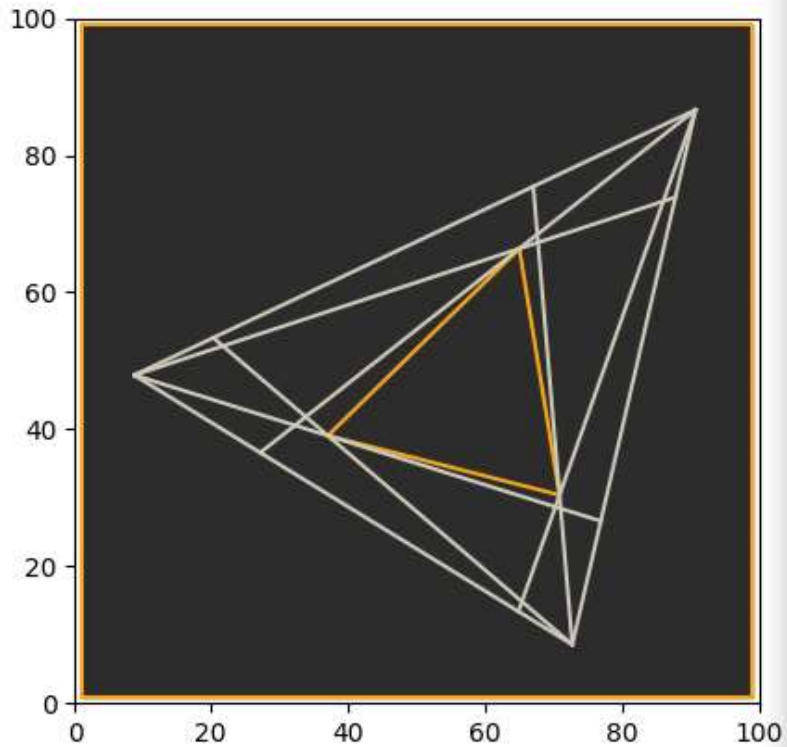
```

-:--- morley-python-2-traits-seuls.py 21% L81 (Python)

Wrote /home/vella-chemla/Desktop/mon-Morley-a-moi/morley-python-2-traits-seuls.py

sy

Figure 1



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File Edit Options Buffers Tools Python Help



```
yba=ya-yb ;
xbc=xc-xb ;
ybc=yc-yb ;
xca=xa-xc ;
yca=ya-yc ;
xcb=xb-xc ;
ycb=yb-yc ;
anglea=angle(xab,yab,xac,yac) ;
angleb=angle(xbc,ybc,xba,yba) ;
anglec=angle(xca,yca,xcb,ycb) ;
print "angle en a "+str(anglea) ;
print "angle en b "+str(angleb) ;
print "angle en c "+str(anglec) ;
xaprime = xa+rotabs(xab,yab,anglea/4.0) ;
yaprime = ya+rotord(xab,yab,anglea/4.0) ;
xaseconde = xa+rotabs(xab,yab,anglea*7.0/8.0) ;
yaseconde = ya+rotord(xab,yab,anglea*7.0/8.0) ;
xbprime = xb+rotabs(xbc,ybc,angleb/4.0) ;
ybprime = yb+rotord(xbc,ybc,angleb/4.0) ;
xbseconde = xb+rotabs(xbc,ybc,angleb*7.0/8.0) ;
ybseconde = yb+rotord(xbc,ybc,angleb*7.0/8.0) ;
xcprime = xc+rotabs(xca,yca,anglec/4.0) ;
ycprime = yc+rotord(xca,yca,anglec/4.0) ;
xcseconde = xc+rotabs(xca,yca,anglec*7.0/8.0) ;
ycseconde = yc+rotord(xca,yca,anglec*7.0/8.0) ;

xp=intersecteabs(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
yp=intersecteord(xa,ya,xaseconde,yaseconde,xb,yb,xc,yc) ;
xq=intersecteabs(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
yq=intersecteord(xa,ya,xaprime,yaprime,xb,yb,xc,yc) ;
xr=intersecteabs(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
yr=intersecteord(xc,yc,xcseconde,ycseconde,xa,ya,xb,yb) ;
```

--:--- morley-python-2-traits-seuls.py 19% L81 (Python)

Wrote /home/vella-chemla/Desktop/mon-Morley-a-moi/morley-python-2-traits-seuls.py

py

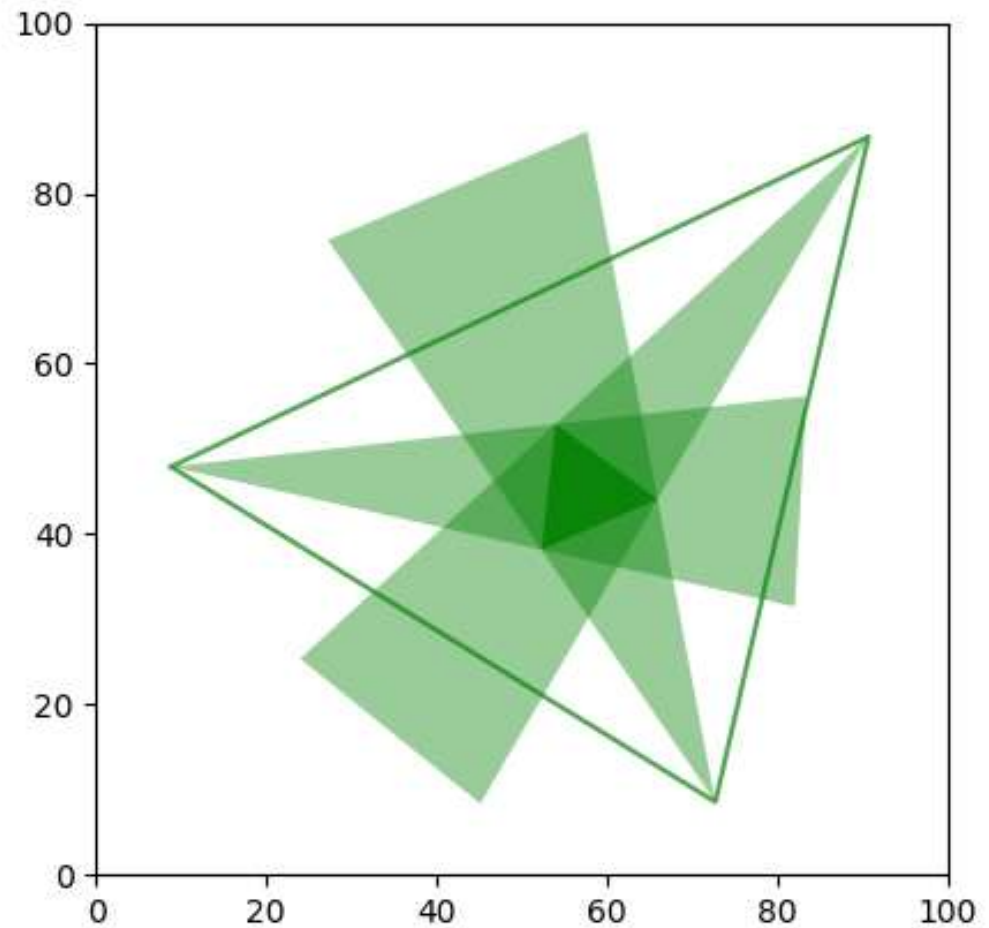
Terminal



Fichier Édition Affichage Rechercher Terminal Aide

```
vella-chemla@vellachemla-X510UA:~$ cd Desktop/Morley-python/  
vella-chemla@vellachemla-X510UA:~/Desktop/Morley-python$ python modif-oubl-p-q-  
etc.py  
norme(vecteur-NO) = 14.8637468062  
norme(vecteur-OX) = 14.8637468062  
norme(vecteur-XN) = 14.8637468062
```

Figure 1



```
vella-chemla@vellachemla-X510UA:~$ cd Desktop/Morley-python/  
vella-chemla@vellachemla-X510UA:~/Desktop/Morley-python$ python essai-morley-py  
hon.py  
norme(vecteur-NO) = 14.8637468062  
norme(vecteur-OX) = 14.8637468062  
norme(vecteur-XN) = 14.8637468062
```

Figure 1

