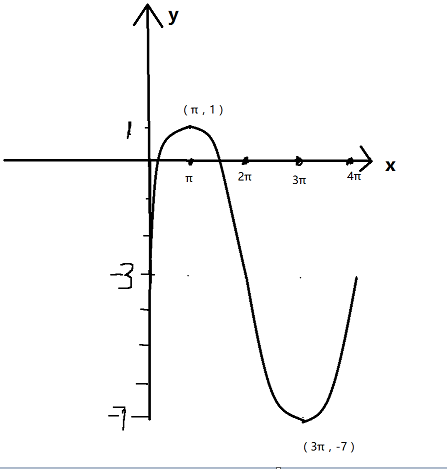
1. tanX



∵DC//AB且AB=2DC

∴=

即=

∵+=+

∴=+-

即=b

∵M、N分别为DC和AB的中点

∴=，=

∵+

∴=

即=

=（1，），=（2，0）

将上述两向量带入公式=cos θ，求得cos θ=

根据题意，0≤θ≤2π，∴θ=60o

Str=[-1,2,4,-6,-2,5]

for i in range(len(Str)):

for j in range(i+1,len(Str)):

if Str[i]>Str[j]:

a=Str[i]

Str[i]=Str[j]

Str[j]=a

else:

print(Str)

line=15

i=j=0

while i<line:

j=0

while j<line:

if i==j:

print("\*",end=" ")

elif line-i==j+1:

print("\*",end=" ")

else:

print(" ",end="")

j+=1

i+=1

print("\n")

Str=[1,9,8,5,7,3,10,6,2,4]

i=j=n=m=0

for i in range(len(Str)):

for j in range(i+1,len(Str)):

if Str[i]<Str[j]:

a=Str[i]

Str[i]=Str[j]

Str[j]=a

for i in range(5):

for j in range(5-i-1):

print(" ",end="")

for n in range(i+1):

print(Str[m],end=" ")

m+=1

print("\n")