```
In [139...
          # Defining the complex number system
          import math
          from fractions import Fraction as frac
          class myComplex:
              def __init__(self,real,imaginary):
                  self.x = real
                  self.y = imaginary
              def disp(self):
                  print(str(self.x)+" + "+"("+str(self.y)+")" + "i")
              def sum(self,a):
                  r = self.x + a.x
                  i = self.y + a.y
                  return myComplex(r,i)
              def prod(self,a):
                  r = self.x*a.x - self.y*a.y
                  i = self.x*a.y + self.y*a.x
                  return myComplex(r,i)
              def conjugate(self):
                  self.y = -1*self.y
              def find_conjugate(self):
                  r = self.x
                  i = -self.y
                  return myComplex(r,i)
              def modulus(self):
                  mod = ((self.x)*(self.x) + (self.y)*(self.y))**(0.5)
                  return mod
              def reciprocal(self):
                  self.conjugate()
                  p = self.modulus()
                  self.x = self.x/(p**2)
                  self.y = self.y/(p**2)
                  return self
              def find_reciprocal(self):
                  u = self.find_conjugate()
                  p = self.modulus()
                  i = u.x/p**2
                  r = u.y/p**2
                  return myComplex(i,r)
              def div(self,b):
                  u = self.find_reciprocal()
```

p = u.prod(b)
p.reciprocal()
return p

print(math.atan(self.y/self.x),end=" ")

print("i.e. tan inverse of "+ str(frac(self.x,self.y)))

def phase(self):

```
r = myComplex(5,3)
s = myComplex(1,2)
t = myComplex(1,0)
u = myComplex(0,4)

s.disp()
t.sum(u).disp()
u.prod(t).disp()
r.find_conjugate().disp()
print(s.modulus())
u.find_reciprocal().disp()
s.find_reciprocal().disp()
t.div(u).disp()
s.div(t).disp()
r.div(s).disp()
```