

3Aug

August 3, 2020

```
[13]: from fractions import Fraction
      f= Fraction(2,5)
      print(f)
      e=f+1.5
      print(e)
```

2/5

1.9

```
[2]: print(f)
```

2/5

```
[1]: 2**3
```

```
[1]: 8
```

```
[2]: import math
      math.sin(78)
```

```
[2]: 0.5139784559875352
```

```
[3]: 1+ 2j
```

```
[3]: (1+2j)
```

```
[5]: s=(1+2j)*(2-9j)
```

```
[6]: import cmath
      print(cmath.polar(s)) #Into polar
```

(20.615528128088304, -0.24497866312686414)

```
[7]: print(cmath.exp(s)) #Euler's Formula
```

(137623019.64063433+465236683.10013294j)

```
[8]: s.conjugate()
```

[8]: (20+5j)

[9]: `abs(s)`

[9]: 20.615528128088304

[10]: `((s.real)**2 + (s.imag)**2)**0.5`

[10]: 20.615528128088304

[11]: 3+5j

[11]: (3+5j)

[12]: `2+3j/3-5j`

[12]: (2-4j)

[ ]: