11-12_Kr_Problem_11.9.9_plots

November 12, 2021

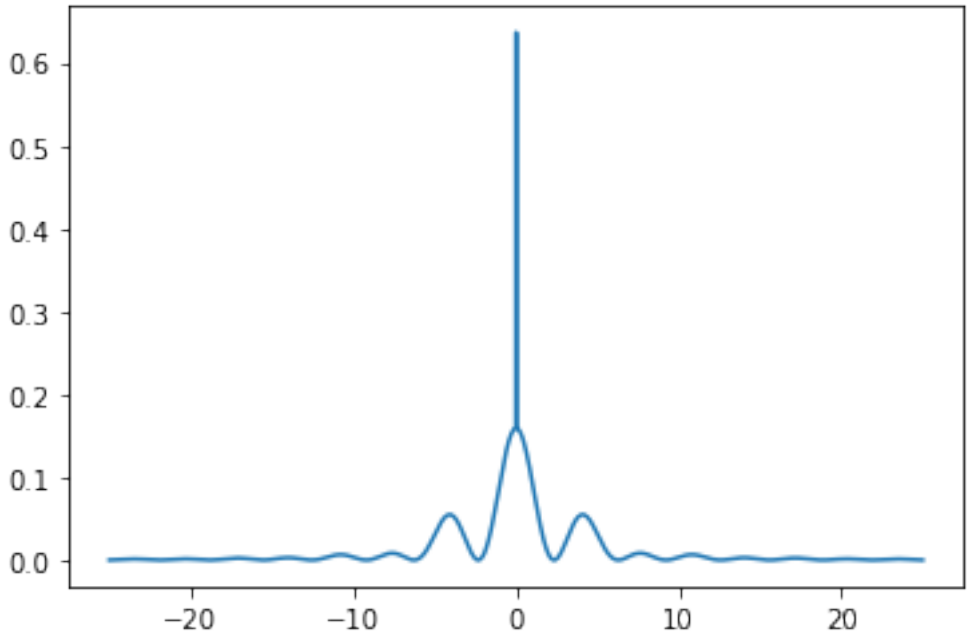
[1]:
```
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

[7]:
```
omega = np.arange(-25, 25, 0.02)
```

[8]:
```
F = ((np.exp(1j * omega) + np.exp(-1j * omega) - 2) / omega**2 +  (np.exp(1j *␣
↪omega) - np.exp(-1j * omega)) / (1j * omega)) / np.sqrt(2 * np.pi)
```

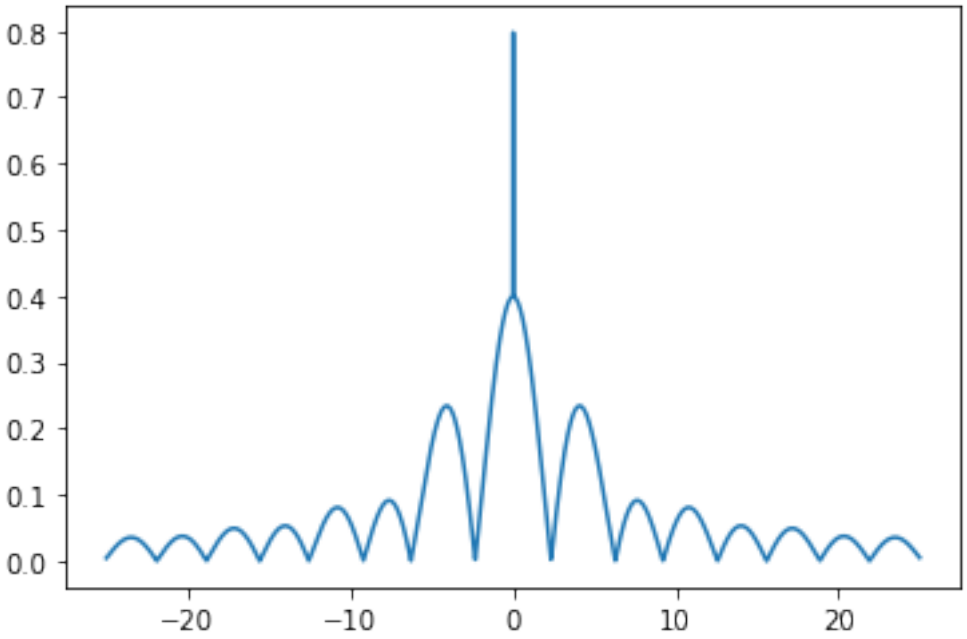
[9]:
```
plt.plot(omega, np.abs(F)**2)
```

[9]:
```
[<matplotlib.lines.Line2D at 0x7f463037fca0>]
```



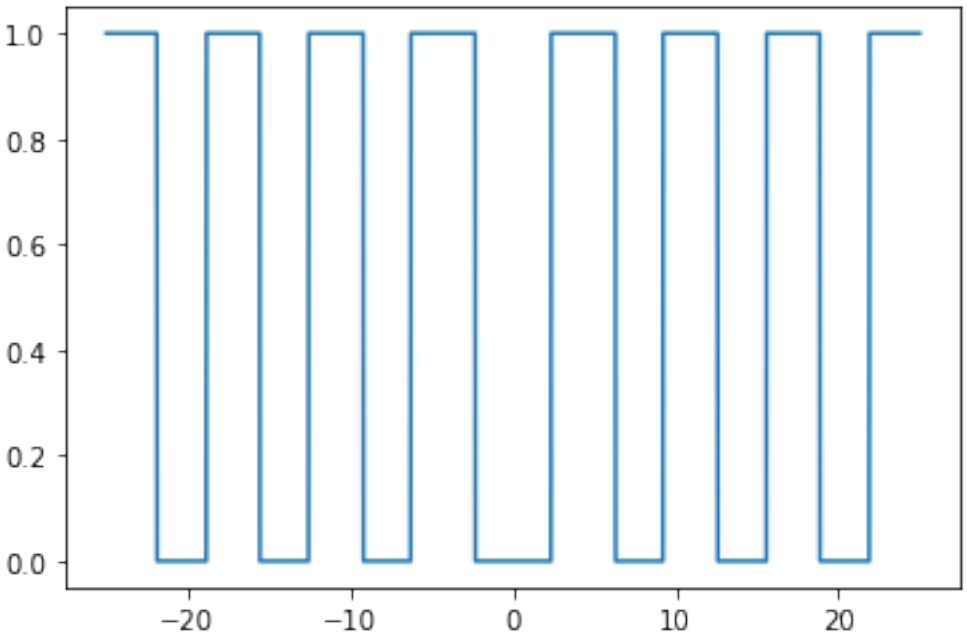
[10]:
```
plt.plot(omega, np.abs(F))
```

[10]:
```
[<matplotlib.lines.Line2D at 0x7f4609be0520>]
```



[12]:
```
plt.plot(omega,np.angle(F) / np.pi)
```

[12]: [<matplotlib.lines.Line2D at 0x7f4609a83fa0>]



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