

Exercice 3.4.3 - Solution :

```
import matplotlib.pyplot as plt  
import numpy as np
```

```
X = np.arange(0, 5, 0.1)
```

```
def f(X):  
    return 2*X + 1
```

```
def J(X):  
    return X**2 - 4*X + 5
```

```
plt.figure()
```

```
plt.subplot(2,2,1)  
y1 = f(X)  
plt.plot(X, y1, c='green')
```

Exercice 3.4.3 - Solution :

```
plt.subplot(2,2,2)
```

```
y2 = J(X)
```

```
plt.plot(X, y2, c='red')
```

```
plt.subplot(2,1,2) # ou bien : plt.subplot( 2,2,(3,4) )
```

```
y3 = np.sin(X)
```

```
plt.plot(X, y3, c='green')
```

```
plt.show()
```