

```
In [1]: 1 import numpy as np
```

```
1 3x + 4y = 15
2 5x + 6y = 20
3
4 x = ?
5 y = ?
```

```
In [8]: 1 A = np.array([[3,4],
2               [5,6]])
3 B = np.array([15,20])
4
5 result = np.linalg.solve(A,B)
6 result
```

```
Out[8]: array([-5. ,  7.5])
```

```
In [10]: 1 x = result[0]
2 y = result[1]
3 x,y
```

```
Out[10]: (-5.0000000000000005, 7.5000000000000005)
```

```
1 3x+4y-5z=25
2 3x+7z=30
3 4y-2z=15
4
5 x,y,z = ?
```

```
In [14]: 1 A = np.array([[3,4,-5],[3,0,7],[0,4,-2]])
2 B = np.array([25,30,15])
3
4 np.linalg.solve(A,B)
```

```
Out[14]: array([5.33333333, 4.75      , 2.      ])
```

```
In [15]: 1 3*5.33333333+4*4.75 -5*2
```

```
Out[15]: 24.99999999
```

```
In [17]: 1 np.around(np.linalg.solve(A,B),1)
```

```
Out[17]: array([5.3,  4.8,  2. ])
```

```
In [ ]: 1
```