3 4 5

```
4  # => array([7, 8, 9])
```

```
1.5  # => array([ 4.5,  6. ,  7.5])
```

4 −1 0

```
# => 8 (= 3 * 4 + 4 * -1 + 5 * 0)
```

```
# => 12
```

0 2 100

Using **numpy**

```
a = np.array([3, 4, 5])
a + 4  # => array([7, 8, 9])
a * 1.5  # => array([ 4.5,  6. ,  7.5])

b = np.array([4, -1, 0])
np.dot(a, b)  # => 8 (= 3 * 4 + 4 * -1 + 5 * 0)
a.sum()  # => 12

space = np.linspace(0, 2 * np.pi, 100)
sinusoid = np.sin(b)
```

SciPy (Scientific Python)