3 4 5

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

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

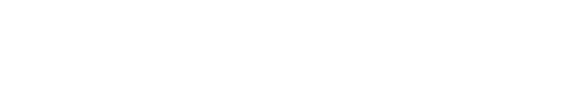


```
\# => 8 (= 3 * 4 + 4 * -1 + 5 * 0)
```

=> 12







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)

