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Vectors, dot and cross product using Python

Recall that to define a matrix we use a command like `Matrix([[row1], [row2], [row3]])`.

A vector is a one-column matrix, so we could define two vectors like this

```
v1 = Matrix([[1], [2], [3]])  
v2 = Matrix([[4], [5], [6]])
```

Now we can obtain the dot product $v_1 \cdot v_2$ using

```
v1.dot(v2)
```

We can obtain the cross product $v_1 \times v_2$ using

```
v1.cross(v2)
```