VECTORS WITH UNIFORMLY SPACED ELEMENTS

MATLAB allows you to create a vector with uniformly spaced elements.

To create a vector v with the first element f, last element l, and the difference between elements is any real number n, we write:

```
v = [f : n : l]
```

Example

Create a script file with the following code −

```
v = [1: 2: 20];
sqv = v.^2;
disp(v);disp(sqv);
```

When you run the file, it displays the following result −

```
Columns 1 through 7:

        1         3         5         7         9        11        13

 Columns 8 through 10:

       15        17        19
Columns 1 through 7:

        1         9        25        49        81       121       169

 Columns 8 through 10:

      225       289       361
```