Problem 5

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Initializing the value of a

```
a = [ 0.035 0.0001;
      0.020 0.0002;
      0.015 0.0010;
      0.030 0.0007;
      0.022 0.0003];
```

Assiging the value for viscous energy(nu) and eplision

```
nu = a(:,1);
eplision = a(:,2);
```

Calculating the length for each value of nu and eplison using the given formula.

```
length = (nu.^3./eplision).^(1/4)
% First it raises the power of each element og nu matrix by 3 and
 dvides
% them by  corresponding elements of eplison matrix. Finally, it
 raises the
% power of each element by 1/4.
```

```
length =

    0.8092
    0.4472
    0.2410
    0.4432
    0.4340
```

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