



ans = 5×1
0.5000

```
1.5000
1.5000
0
-0.5000
ans = 4×1
1.5000
1.5000
0
-0.5000
```

Exercise 4 - Basic Data Analysis

a)

```
fn = "data.h5";
info = h5info(fn);
group_name = info.Groups.Name;
ds_name = info . Groups . Datasets .Name;
data = h5read(fn , [group_name '/' ds_name]);
```

```
plot(data)
```

b)

```
n_start = 1.5*10^5;
n_end = n_start + 400;
plot(data)
xlim([n_start, n_end-1])
```

c)

```
pad = zeros([100 1]);
shifted_data = [pad; data];

hold("on");
plot(data)
plot(shifted_data)
xlim([n_start, n_end-1])
hold("off");
legend("original data", "shifted data");
```

