Phase 3:

Measuring board every 5cm.

```
%A0 = [0 0; 5 5.38; 10 10.50; 15 15.36; 20 20.69; 25 25.81; 30 30.72; 35 35.59; 40 40.55; 45 45
```

Theoretical:

Experimental

```
y = [0; 5.38; 10.50; 15.36; 20.69; 25.81; 30.72; 35.59; 40.55; 45.62; 50.57; 55.66; 60.67; 65.60; y = 21×1
0
5.3800
10.5000
15.3600
20.6900
25.8100
30.7200
35.5900
40.5500
45.6200
...
```

A = [x ones(21,1)]

```
A = 21 \times 2
     0
            1
     5
            1
    10
             1
     15
             1
     20
             1
    25
             1
    30
            1
    35
             1
    40
             1
     45
```

Solve for y = mx + b

```
Z = A \setminus y
Z = 2 \times 1
0.9994
```

y = .9994*x + 0.5125

0.5125

```
plot(x,'--x')
hold on
plot(y,'-o')
hold off
```

