

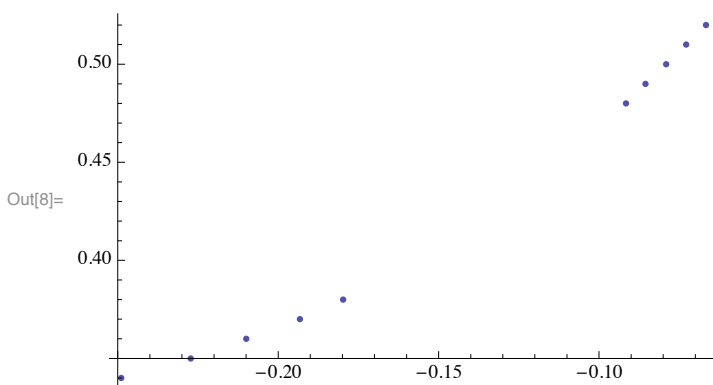
Delta

Tocka1

```
In[7]:= tocke1 = {{-0.24894, 0.34}, {-0.227272, 0.35}, {-0.209944, 0.36},  
               {-0.193242, 0.37}, {-0.179798, 0.38}, {-0.0916223, 0.48}, {-0.085503, 0.49},  
               {-0.0790764, 0.5}, {-0.0728524, 0.51}, {-0.0666837, 0.52}}
```

```
Out[7]:= {{-0.24894, 0.34}, {-0.227272, 0.35}, {-0.209944, 0.36},  
          {-0.193242, 0.37}, {-0.179798, 0.38}, {-0.0916223, 0.48}, {-0.085503, 0.49},  
          {-0.0790764, 0.5}, {-0.0728524, 0.51}, {-0.0666837, 0.52}}
```

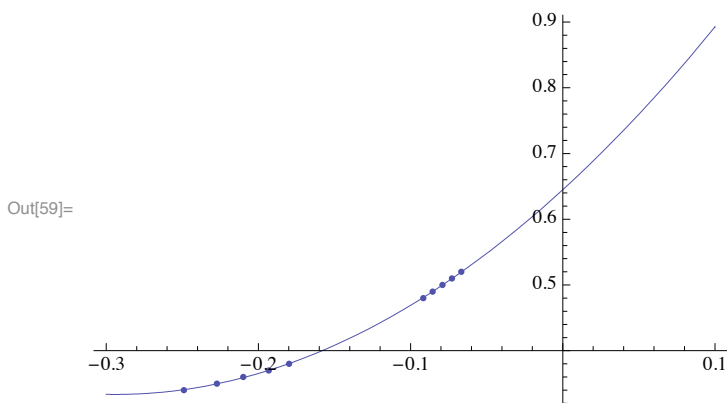
```
In[8]:= ListPlot[tocke1]
```



```
In[9]:= fit1 = FindFit[tocke1, a*x^2 + b*x + c, {a, b, c}, x]
```

```
Out[9]:= {a -> 3.60166, b -> 2.11787, c -> 0.644824}
```

```
In[59]:= s1 = Show[ListPlot[tocke1], Plot[a*x^2 + b*x + c /. fit1, {x, -0.3, 0.1}]]
```

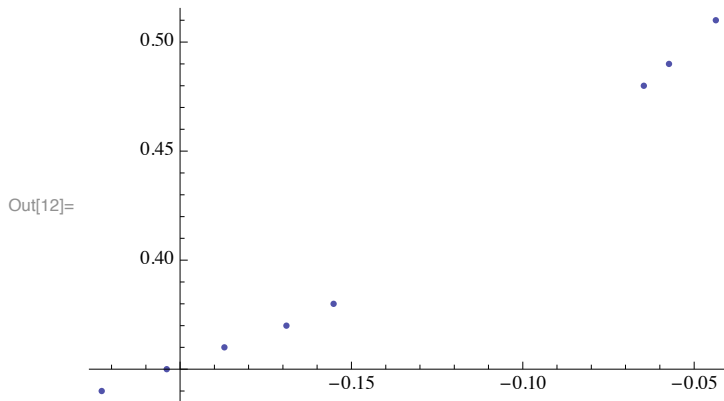


Tocka2

```
In[11]:= tocke2 = {{-0.222873, 0.34}, {-0.203898, 0.35}, {-0.18708, 0.36}, {-0.16895, 0.37},  
                 {-0.155189, 0.38}, {-0.0646842, 0.48}, {-0.0573267, 0.49}, {-0.0436538, 0.51}}
```

```
Out[11]:= {{-0.222873, 0.34}, {-0.203898, 0.35}, {-0.18708, 0.36}, {-0.16895, 0.37},  
           {-0.155189, 0.38}, {-0.0646842, 0.48}, {-0.0573267, 0.49}, {-0.0436538, 0.51}}
```

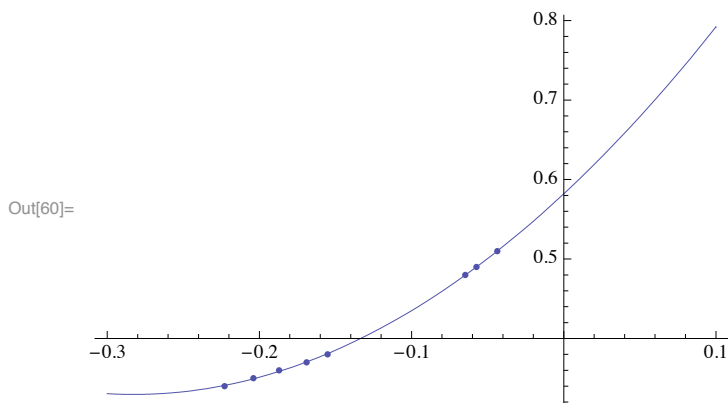
In[12]:= **ListPlot**[tocke2]



In[13]:= **fit2 = FindFit**[tocke2, $a * x^2 + b * x + c$, {**a**, **b**, **c**}, **x**]

Out[13]= {**a** → 3.15658, **b** → 1.78506, **c** → 0.581984}

In[60]:= **s2 = Show**[**ListPlot**[tocke2], **Plot**[$a * x^2 + b * x + c /. fit2$, {**x**, -0.3, 0.1}]]

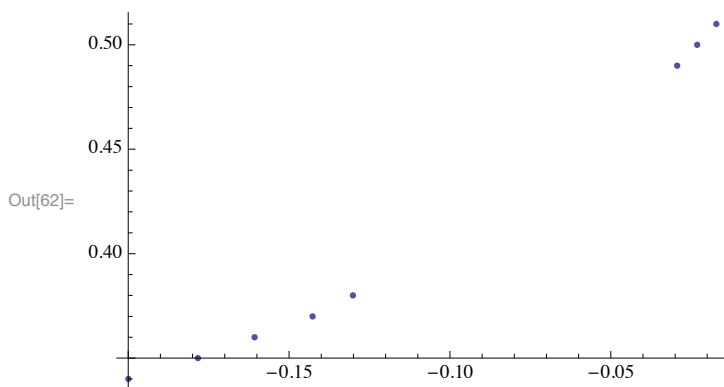


Tocka3

In[61]:= **tocke3 =** {**{**-0.199962, 0.34}, **{**-0.178369, 0.35}, **{**-0.160726, 0.36}, **{**-0.142697, 0.37},
{-0.130138, 0.38}, **{**-0.02933, 0.49}, **{**-0.0231574, 0.5}, **{**-0.0171627, 0.51}}

Out[61]= {**{**-0.199962, 0.34}, **{**-0.178369, 0.35}, **{**-0.160726, 0.36}, **{**-0.142697, 0.37},
{-0.130138, 0.38}, **{**-0.02933, 0.49}, **{**-0.0231574, 0.5}, **{**-0.0171627, 0.51}}

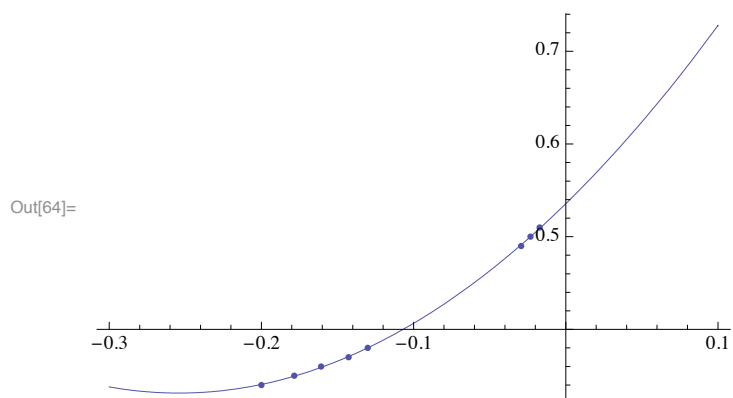
In[62]:= **ListPlot**[tocke3]



```
In[63]:= fit3 = FindFit[tocke3, a * x^2 + b * x + c, {a, b, c}, x]
```

```
Out[63]:= {a → 3.15913, b → 1.60638, c → 0.535561}
```

```
In[64]:= s3 = Show[ListPlot[tocke3], Plot[a * x^2 + b * x + c /. fit3, {x, -0.3, 0.1}], PlotRange → All]
```

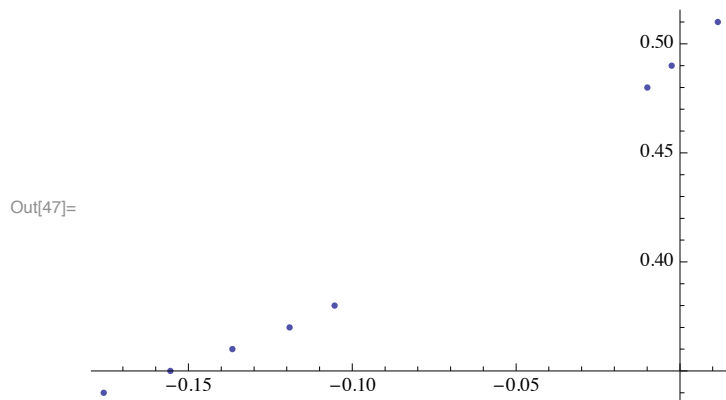


Tocka4

```
In[46]:= tocke4 = {{-0.175867, 0.34}, {-0.155509, 0.35}, {-0.1366, 0.36}, {-0.119141, 0.37},
  {-0.10541, 0.38}, {-0.00992469, 0.48}, {-0.00253436, 0.49}, {0.011572, 0.51}}
```

```
Out[46]:= {{-0.175867, 0.34}, {-0.155509, 0.35}, {-0.1366, 0.36}, {-0.119141, 0.37},
  {-0.10541, 0.38}, {-0.00992469, 0.48}, {-0.00253436, 0.49}, {0.011572, 0.51}}
```

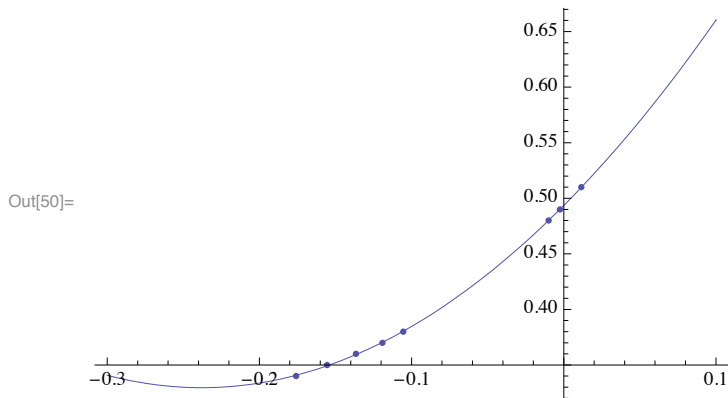
```
In[47]:= ListPlot[tocke4]
```



```
In[48]:= fit4 = FindFit[tocke4, a * x^2 + b * x + c, {a, b, c}, x]
```

```
Out[48]:= {a → 2.89722, b → 1.37833, c → 0.493501}
```

In[50]:= **s4 = Show[ListPlot[tocke4], Plot[a * x^2 + b * x + c /. fit4, {x, -0.3, 0.1}], PlotRange -> All]**

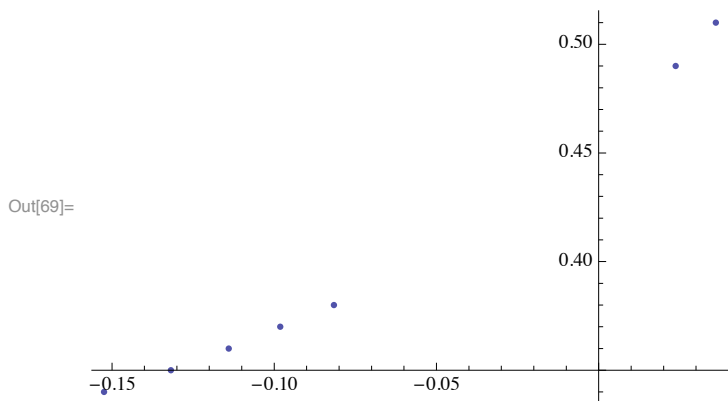


Tocka5

In[68]:= **tocke5 = {{-0.152423, 0.34}, {-0.131847, 0.35}, {-0.114035, 0.36},
{-0.0981261, 0.37}, {-0.0815955, 0.38}, {0.0237111, 0.49}, {0.036113, 0.51}}**

Out[68]= {{-0.152423, 0.34}, {-0.131847, 0.35}, {-0.114035, 0.36},
{-0.0981261, 0.37}, {-0.0815955, 0.38}, {0.0237111, 0.49}, {0.036113, 0.51}}

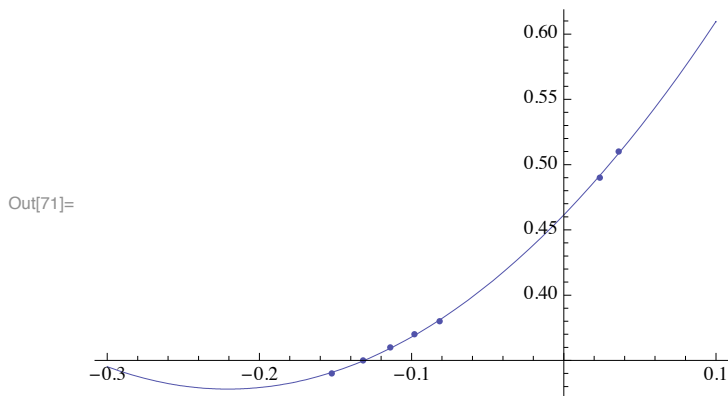
In[69]:= **ListPlot[tocke5]**



In[70]:= **fit5 = FindFit[tocke5, a * x^2 + b * x + c, {a, b, c}, x]**

Out[70]= {a -> 2.73749, b -> 1.20833, c -> 0.461383}

In[71]:= **s5 = Show[ListPlot[tocke5], Plot[a * x^2 + b * x + c /. fit5, {x, -0.3, 0.1}], PlotRange -> All]**

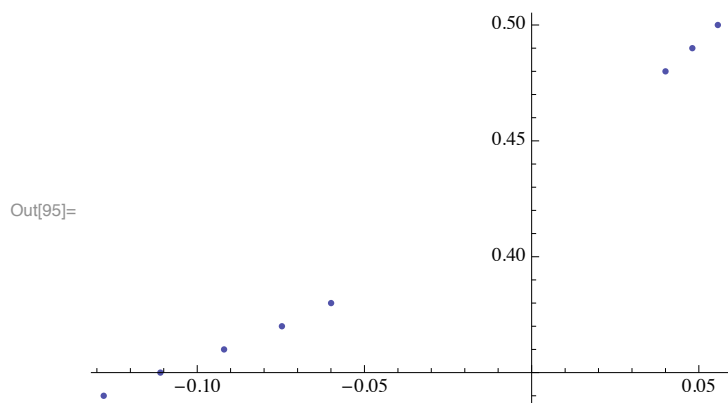


Tocka6

```
In[94]:= tocke6 = {{-0.127956, 0.34}, {-0.111014, 0.35}, {-0.0919486, 0.36}, {-0.0746568, 0.37},  
                {-0.0599823, 0.38}, {0.0400255, 0.48}, {0.0480319, 0.49}, {0.0556724, 0.50}}
```

```
Out[94]:= {{-0.127956, 0.34}, {-0.111014, 0.35}, {-0.0919486, 0.36}, {-0.0746568, 0.37},  
          {-0.0599823, 0.38}, {0.0400255, 0.48}, {0.0480319, 0.49}, {0.0556724, 0.5}}
```

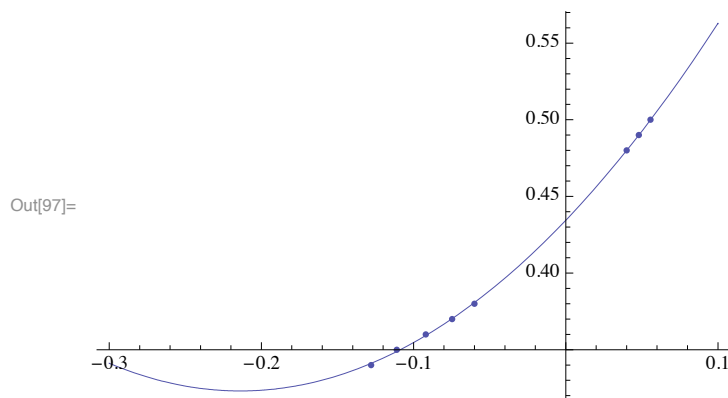
```
In[95]:= ListPlot[tocke6]
```



```
In[96]:= fit6 = FindFit[tocke6, a * x^2 + b * x + c, {a, b, c}, x]
```

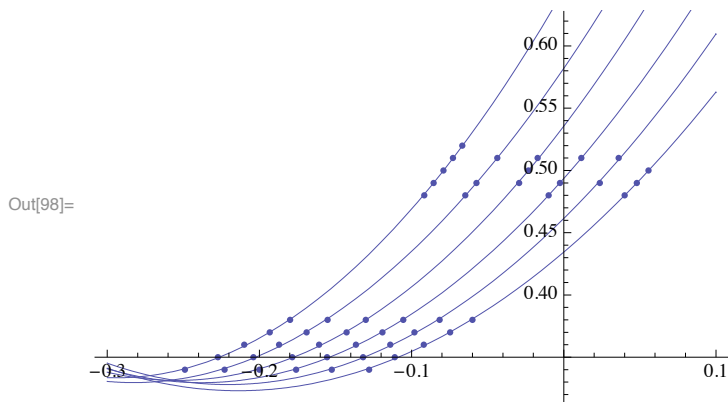
```
Out[96]:= {a → 2.43462, b → 1.04115, c → 0.434404}
```

```
In[97]:= s6 = Show[ListPlot[tocke6], Plot[a * x^2 + b * x + c /. fit6, {x, -0.3, 0.1}], PlotRange → All]
```



Final Results

In[98]:= **Show[s1, s2, s3, s4, s5, s6]**

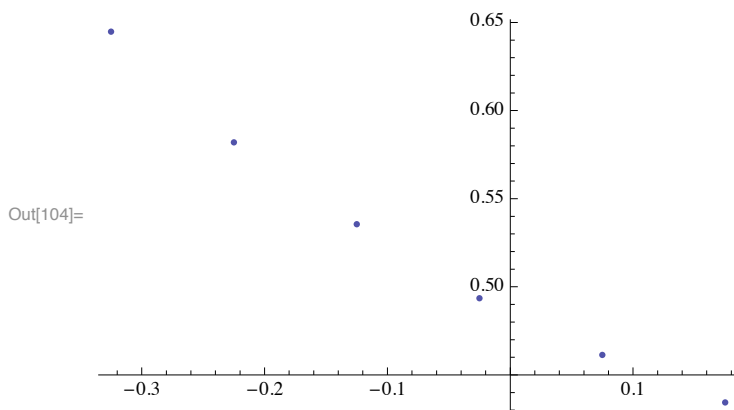


C - Dependence

In[103]:= **tockeC = {{-0.325, c /. fit1}, {-0.225, c /. fit2},**
{-0.125, c /. fit3}, {-0.025, c /. fit4}, {0.075, c /. fit5}, {0.175, c /. fit6}}

Out[103]= **{{-0.325, 0.644824}, {-0.225, 0.581984}, {-0.125, 0.535561},**
{-0.025, 0.493501}, {0.075, 0.461383}, {0.175, 0.434404}}

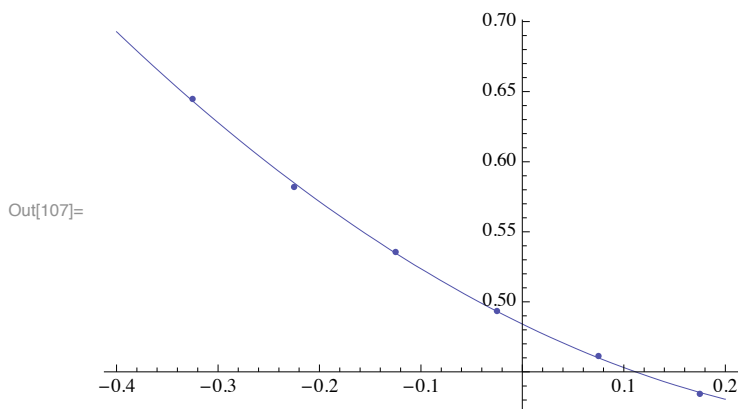
In[104]:= **ListPlot[tockeC]**



In[106]:= **fitC = FindFit[tockeC, d*x² + f*x + g, {d, f, g}, x]**

Out[106]= **{d → 0.422362, f → -0.352635, g → 0.484134}**

```
In[107]:= Show[ListPlot[tockeC], Plot[d*x^2 + f*x + g /. fitC, {x, -0.4, 0.2}]]
```

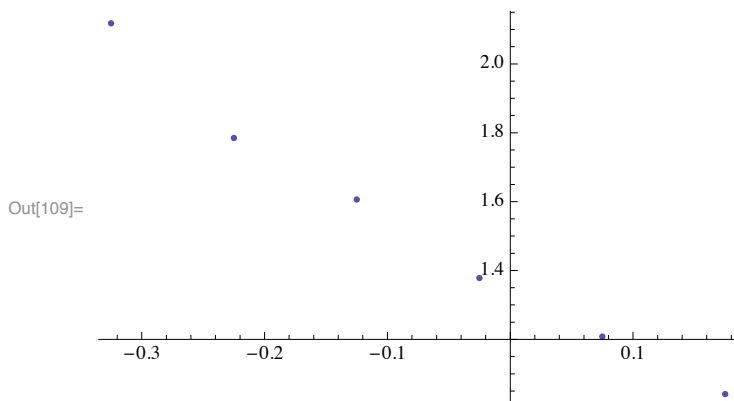


B - Dependence

```
In[110]:= tockeB = {{-0.325, b /. fit1}, {-0.225, b /. fit2},
  {-0.125, b /. fit3}, {-0.025, b /. fit4}, {0.075, b /. fit5}, {0.175, b /. fit6}}
```

```
Out[110]= {{-0.325, 2.11787}, {-0.225, 1.78506}, {-0.125, 1.60638},
  {-0.025, 1.37833}, {0.075, 1.20833}, {0.175, 1.04115}}
```

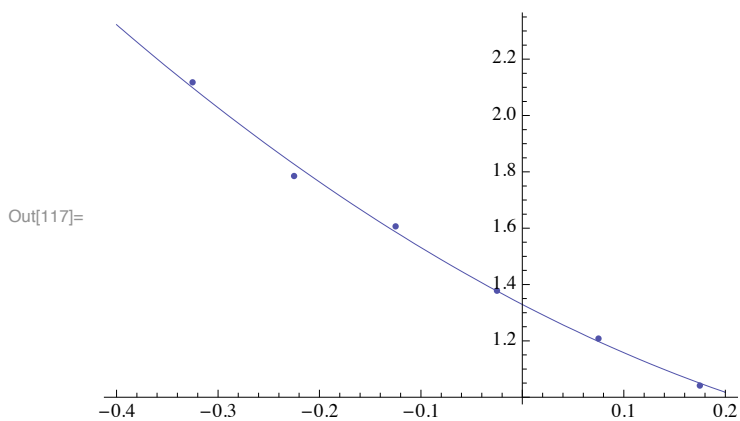
```
In[109]:= ListPlot[tockeB]
```



```
fitB = FindFit[tockeB, d*x^2 + f*x + g, {d, f, g}, x]
```

```
Out[116]= {d -> 1.54087, f -> -1.86654, g -> 1.32926}
```

```
In[117]:= Show[ListPlot[tockeB], Plot[d*x^2 + f*x + g /. fitB, {x, -0.4, 0.2}]]
```

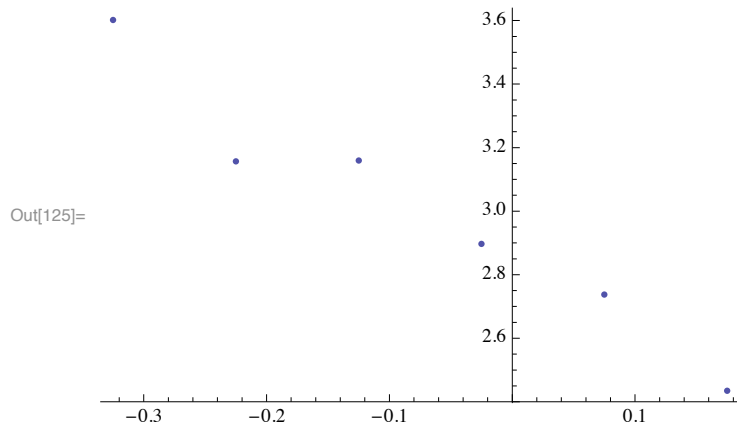


A - Dependence

```
In[124]:= tockeA = {{-0.325, a /. fit1}, {-0.225, a /. fit2},
  {-0.125, a /. fit3}, {-0.025, a /. fit4}, {0.075, a /. fit5}, {0.175, a /. fit6}}
```

```
Out[124]= {{-0.325, 3.60166}, {-0.225, 3.15658}, {-0.125, 3.15913},
  {-0.025, 2.89722}, {0.075, 2.73749}, {0.175, 2.43462}}
```

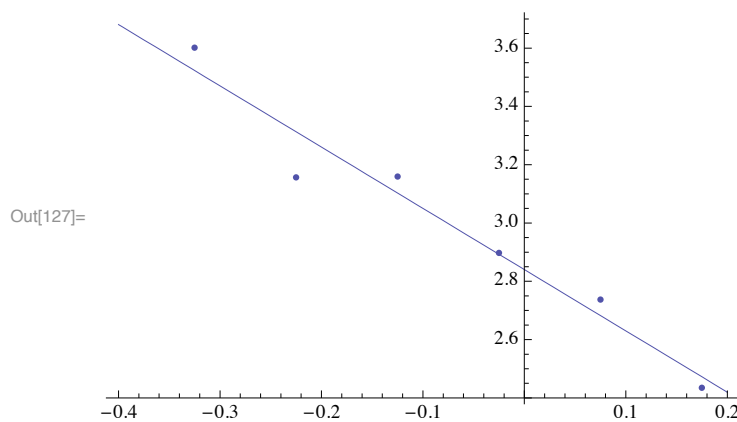
```
In[125]:= ListPlot[tockeA]
```



```
In[126]:= fitA = FindFit[tockeA, 0 * x^2 + f * x + g, {d, f, g}, x]
```

```
Out[126]= {d -> -1.17698 * 10^-15, f -> -2.10124, g -> 2.84019}
```

```
In[127]:= Show[ListPlot[tockeA], Plot[d * x^2 + f * x + g /. fitA, {x, -0.4, 0.2}]]
```



Theta

Final Results

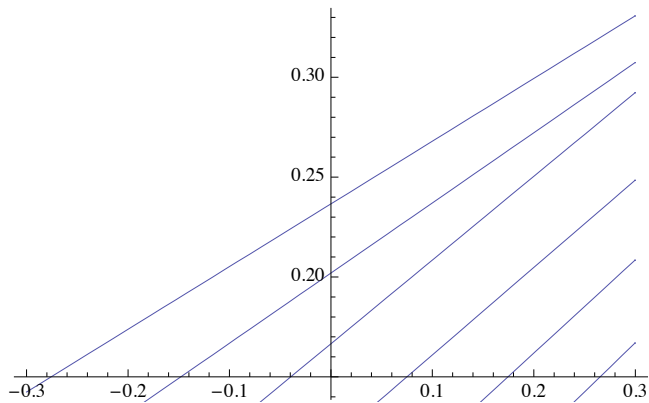
```
In[187]:= tocke = {{-0.525, 0.236597, 0.314079}, {-0.425, 0.201964, 0.351425},
  {-0.325, 0.166556, 0.419333}, {-0.225, 0.11717, 0.437929},
  {-0.125, 0.0685948, 0.466456}, {-0.025, 0.0197324, 0.490963},
  {0.075, -0.0296644, 0.497465}, {0.175, -0.0761665, 0.498912}}
```

```
Out[187]= {{-0.525, 0.236597, 0.314079}, {-0.425, 0.201964, 0.351425}, {-0.325, 0.166556, 0.419333},
  {-0.225, 0.11717, 0.437929}, {-0.125, 0.0685948, 0.466456}, {-0.025, 0.0197324, 0.490963},
  {0.075, -0.0296644, 0.497465}, {0.175, -0.0761665, 0.498912}}
```



```
In[188]:= Show[Map[Plot[#[[2]] + #[[3]] * th, {th, -0.3, 0.3}] &, tocke]
```

```
Out[188]=
```



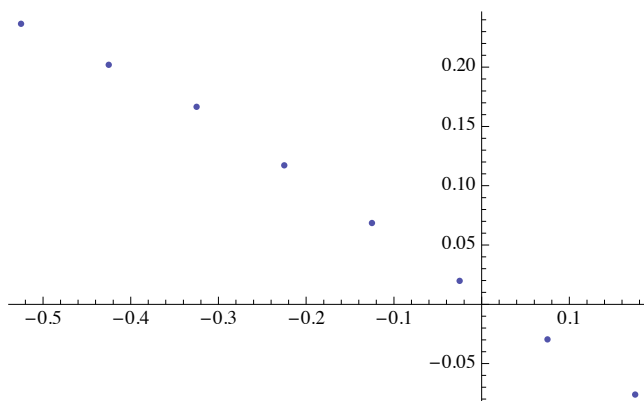
C - Dependence

```
In[189]:= tockeC = Map[#[[1]], #[[2]]] &, tocke]
```

```
Out[189]= {{-0.525, 0.236597}, {-0.425, 0.201964}, {-0.325, 0.166556}, {-0.225, 0.11717},
  {-0.125, 0.0685948}, {-0.025, 0.0197324}, {0.075, -0.0296644}, {0.175, -0.0761665}}
```

```
In[190]:= ListPlot[tockeC]
```

```
Out[190]=
```

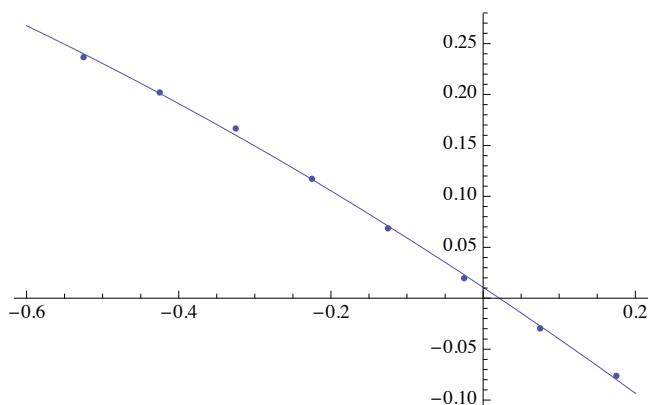


```
In[220]:= fitC = FindFit[tockeC, d * x^2 + f * x + g, {d, f, g}, x]
```

```
Out[220]= {d -> -0.11451, f -> -0.496808, g -> 0.010675}
```

```
In[221]:= Show[ListPlot[tockeC], Plot[d * x^2 + f * x + g /. fitC, {x, -0.6, 0.2}]]
```

```
Out[221]=
```

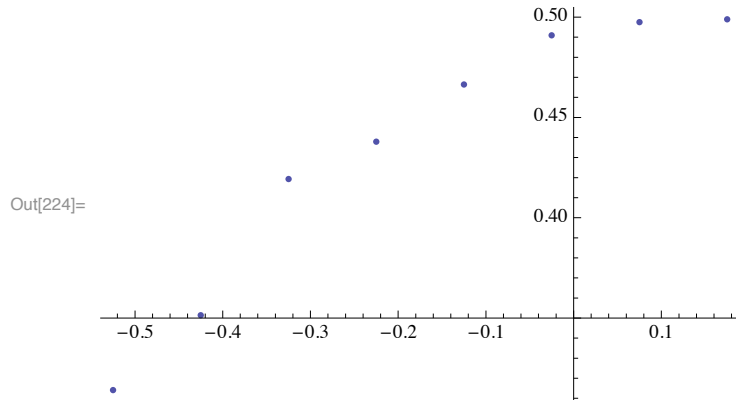


B - Dependence

```
In[223]:= tockeB = Map[#[[1]], #[[3]]] &, tocke]
```

```
Out[223]= {{-0.525, 0.314079}, {-0.425, 0.351425}, {-0.325, 0.419333}, {-0.225, 0.437929},  
          {-0.125, 0.466456}, {-0.025, 0.490963}, {0.075, 0.497465}, {0.175, 0.498912}}
```

```
In[224]:= ListPlot[tockeB]
```



```
In[236]:= fitB = FindFit[tockeB, d*x^2 + f*x + g, {d, f, g}, x]
```

```
Out[236]= {d → -0.424396, f → 0.121396, g → 0.491092}
```

```
In[238]:= Show[ListPlot[tockeB], Plot[d*x^2 + f*x + g /. fitB, {x, -0.5, 0.2}], PlotRange → All]
```

