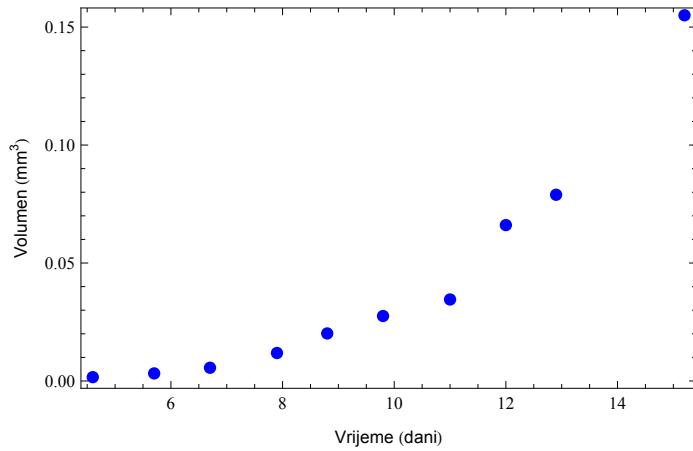


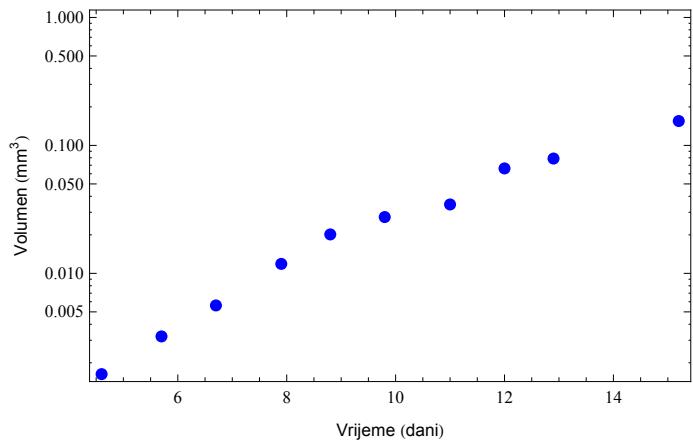
```
podaci = {{4.6, 0.0016308}, {5.7, 0.0032148},
{6.7, 0.005614}, {7.9, 0.0118598}, {8.8, 0.02015}, {9.8, 0.027538},
{11, 0.034546}, {12, 0.06608}, {12.9, 0.078932}, {15.2, 0.155}},

{{4.6, 0.0016308}, {5.7, 0.0032148}, {6.7, 0.005614},
{7.9, 0.0118598}, {8.8, 0.02015}, {9.8, 0.027538},
{11, 0.034546}, {12, 0.06608}, {12.9, 0.078932}, {15.2, 0.155}}
```

```
graf = ListPlot[podaci, Frame → True,
FrameLabel → {"Vrijeme (dani)", "Volumen (mm³)"}, RotateLabel → True,
PlotStyle → {PointSize[0.02], RGBColor[0, 0, 1]}]
```



```
graf2 = ListLogPlot[podaci, Frame → True,
FrameLabel → {"Vrijeme (dani)", "Volumen (mm³)"}, RotateLabel → True,
PlotStyle → {PointSize[0.02], RGBColor[0, 0, 1]}]
```



Da bi dobili pravac od eksp. funkcije logaritmiramo vrijednosti funkcije

```
promjenjena = Transpose[podaci]
{{4.6, 5.7, 6.7, 7.9, 8.8, 9.8, 11, 12, 12.9, 15.2}, {0.0016308, 0.0032148,
0.005614, 0.0118598, 0.02015, 0.027538, 0.034546, 0.06608, 0.078932, 0.155}}
```

```

vrijednosti = promjenjena[[2]]
{0.0016308, 0.0032148, 0.005614, 0.0118598,
 0.02015, 0.027538, 0.034546, 0.06608, 0.078932, 0.155}

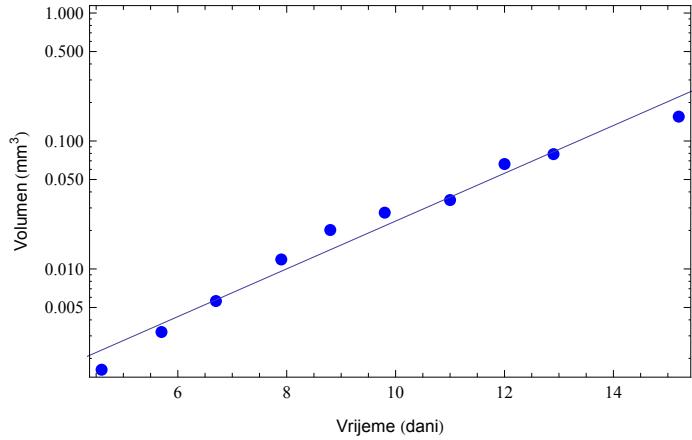
logaritmiranevrijednosti = Log[vrijednosti]
{-6.41868, -5.73999, -5.18249, -4.4346, -3.90455,
 -3.59219, -3.36546, -2.71689, -2.53917, -1.86433}

novipodaci = Transpose[{promjenjena[[1]], logaritmiranevrijednosti}]
{{4.6, -6.41868}, {5.7, -5.73999}, {6.7, -5.18249},
 {7.9, -4.4346}, {8.8, -3.90455}, {9.8, -3.59219}, {11, -3.36546},
 {12, -2.71689}, {12.9, -2.53917}, {15.2, -1.86433}]

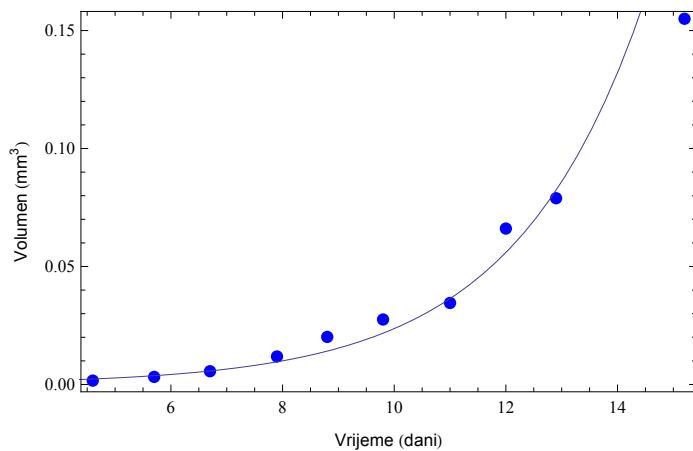
y[x_] = Fit[novipodaci, {1, x}, x]
-8.04273 + 0.429904 x

Show[ListLogPlot[podaci, Frame → True,
  FrameLabel → {"Vrijeme (dani)", "Volumen (mm³)"}, RotateLabel → True,
  PlotStyle → {PointSize[0.02], RGBColor[0, 0, 1]}],
 Plot[-8.042728189360952 + 0.4299041426385786 x, {x, 4, 16}]]

```



```
Show[ListPlot[podaci, Frame -> True, FrameLabel -> {"Vrijeme (dani)", "Volumen (mm³)"},  
RotateLabel -> True, PlotStyle -> {PointSize[0.02], RGBColor[0, 0, 1]}],  
Plot[Exp[-8.042728189360952 + 0.4299041426385786 x], {x, 4, 16}]]
```



Vrijeme udvostrucenja je:

$$2 = e^{-(-8.042728189360952 + 0.4299041426385786 x_2)} / e^{-(-8.042728189360952 + 0.4299041426385786 x_1)}$$

$$x_2 - x_1 = \ln 2 / 0.4299041426385786 = 1.61$$

Broj stanica se udvostruci za 1.61 dana