```
ln[1] = (*Faktor obvojnog ugla trapeznih i rebrastih remena <math>C_{\beta}*)
    (*Tabela 10.12 - str. 385 - Milcic.*)
   SetOptions[ListPlot, BaseStyle → {FontFamily → "Century Schoolbook", FontSize → 16}];
   (*Definisanje uredjene liste podataka*)
   Lista = \{\{200, 1.04\}, \{190, 1.02\}, \{180, 1\}, \{170, 0.97\}, \{160, 0.95\}, \{150, 0.92\}, \{140, 0.89\}, \{130, 0.86\}, \{125, 0.84\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{180, 1.04\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02\}, \{190, 1.02
              \{120, 0.82\}, \{115, 0.8\}, \{110, 0.78\}, \{105, 0.76\}, \{100, 0.74\}, \{95, 0.72\}, \{90, 0.68\}, \{85, 0.66\}, \{80, 0.64\}\};
  Grid [\{\beta, 200, 190, 180, 170, 160, 150, 140, 130, 125, 120, 115, 110, 105, 100, 95, 90, 85, 80\},
          \{C_{\beta}, 1.04, 1.02, 1, 0.97, 0.95, 0.92, 0.89, 0.86, 0.84, 0.82, 0.8, 0.78, 0.76, 0.74, 0.72, 0.68, 0.66, 0.64\}\}, Frame \rightarrow All]
   (*Fitovanje*)
   Fitovanje = Fit[Lista, {1, x, x^2, x^3}, x];
   (*Stampanje funkcije*)
  Grafik1 = ListPlot[Lista, AxesOrigin \rightarrow {70, 0.6}, AxesLabel \rightarrow {"\beta[°]", "C_{\beta}"}];
  Grafik2 = Plot[Fitovanje, {x, 70, 200}, PlotStyle → Red];
   Show[Grafik1, Grafik2]
  Print["Interpolacioni polinom ima sledeci oblik: y=", Fitovanje]
  F[x_] = Fitovanje;
```

190

180

170

0.97

160

150

140

130

125

120

115 | 110

0.95 0.92 0.89 0.86 0.84 0.82 0.8 0.78 0.76 0.74 0.72 0.68 0.66 0.64

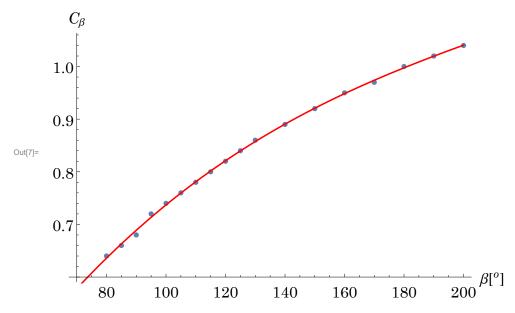
105

100

95

85

80



 $Interpolacioni\ polinom\ ima\ sledeci\ oblik:\ y=0.00281601+0.0106648\ x-0.0000390555\ x^2+5.83701\times 10^{-8}\ x^3$

(*Procentualna greska interpolacionog polinoma*)

Greska =
$$\frac{Abs[F[90] - 0.68]}{0.68} * 100$$

1.30094

F[167.288]

0.967188