

 $v=a\_{0}+a\_{1}x+a\_{2}x^{2}+a\_{3}x^{3}+a\_{4}x^{4}+a\_{5}x^{5}+a\_{6}x^{6}$ [1]

Iz uslova :
 $za x=0 , v=0 ⟹ a\_{0}=0$ [2]

 $v=a\_{1}x+a\_{2}x^{2}+a\_{3}x^{3}+a\_{4}x^{4}+a\_{5}x^{5}+a\_{6}x^{6}$ [3]

 IZ uslova: $za x=30 , v=20$ [4]

 $za x=50 , v=0$ [5]

 Uslovi minimuma

 $za x=0 , \frac{dv}{dx}=0$ [6]

 $za x=30 , \frac{dv}{dx}=0$ [7]

 $za x=50 , \frac{dv}{dx}=0$ [8]

$\frac{dv}{dx}=a\_{1}+2∙a\_{2}x^{1}+3∙a\_{3}x^{2}+4∙a\_{4}x^{3}+5∙a\_{5}x^{4}+6∙a\_{6}x^{5}$ [9]

Iz [6] i [9] imamo $ 0=a\_{1} $ [10]

Formirama sistem jednacina koje resavamao u zavisnosti jednog koeficijenata

 $20=a\_{2}30^{2}+a\_{3}30^{3}+a\_{4}30^{4}+a\_{5}30^{5}+a\_{6}30^{6}$ [11]

 $0= a\_{2}50^{2}+a\_{3}50^{3}+a\_{4}50^{4}+a\_{5}50^{5}+a\_{6}50^{6}$ [12]

 $0=2∙a\_{2}30^{1}+3∙a\_{3}30^{2}+4∙a\_{4}30^{3}+5∙a\_{5}30^{4}+6∙a\_{6}30^{5}$ [13]

 $0=2∙a\_{2}50^{1}+3∙a\_{3}50^{2}+4∙a\_{4}50^{3}+5∙a\_{5}50^{4}+6∙a\_{6}50^{5}$ [14]

 Jednacinu [11] delimo sa 900, Jednacinu [12] delimo sa 2500,

 Jednacinu [13] delimo sa 2\*30, Jednacinu [14] delimo sa 2\*50

 $1/45=a\_{2}+a\_{3}30^{1}+a\_{4}30^{2}+a\_{5}30^{3}+a\_{6}30^{4}$ [15]

 $0= a\_{2}+a\_{3}50^{1}+a\_{4}50^{2}+a\_{5}50^{3}+a\_{6}50^{4}$ [16]

 $0=a\_{2}+3/2∙a\_{3}30^{1}+2∙a\_{4}30^{2}+5/2∙a\_{5}30^{3}+3∙a\_{6}30^{4}$ [17]

 $0=a\_{2}+3/2∙a\_{3}50^{1}+2∙a\_{4}50^{2}+5/2∙a\_{5}50^{3}+3∙a\_{6}50^{4}$ [18]

Iz [16] $a\_{2}= -a\_{3}50^{1}-a\_{4}50^{2}-a\_{5}50^{3}-a\_{6}50^{4}$ zamenimo to u ostale jednacine

 $1/45= -a\_{3}50^{1}-a\_{4}50^{2}-a\_{5}50^{3}-a\_{6}50^{4}+a\_{3}30^{1}+a\_{4}30^{2}+a\_{5}30^{3}+a\_{6}30^{4}$ [19]

 $0=-a\_{3}50^{1}-a\_{4}50^{2}-a\_{5}50^{3}-a\_{6}50^{4}+3/2∙a\_{3}30^{1}+2∙a\_{4}30^{2}+5/2∙a\_{5}30^{3}+3∙a\_{6}30^{4}$ [20]

 $0=-a\_{3}50^{1}-a\_{4}50^{2}-a\_{5}50^{3}-a\_{6}50^{4}+3/2∙a\_{3}50^{1}+2∙a\_{4}50^{2}+5/2∙a\_{5}50^{3}+3∙a\_{6}50^{4}$ [21]

Nakon sredivanja

 $\frac{1}{45}= -a\_{3}2∙10^{1}-a\_{4}16∙10^{2}-a\_{5}98∙10^{3}-a\_{6}544∙10^{4}$ [22]

 $0=-a\_{3}5-a\_{4}7∙10^{2}-a\_{5}575∙10^{2}-a\_{6}382∙10^{4}$ [23]

 $0=a\_{3}25+a\_{4}25∙10^{2}+a\_{5}1875∙10^{2}+a\_{6}125∙10^{5}$ [24]

Delimo [22] sa 20 , [23] sa 5, [24] sa 25,

 $\frac{1}{45}= -a\_{3}2∙10^{1}-a\_{4}16∙10^{2}-a\_{5}98∙10^{3}-a\_{6}544∙10^{4}$ [22]

 $0=-a\_{3}5-a\_{4}7∙10^{2}-a\_{5}575∙10^{2}-a\_{6}382∙10^{4}$ [23]

 $0=a\_{3}25+a\_{4}25∙10^{2}+a\_{5}1875∙10^{2}+a\_{6}125∙10^{5}$ [24]

 $900^{-1}= -a\_{3}-a\_{4}8∙10^{1}-a\_{5}49∙10^{2}-a\_{6}272∙10^{3}$ [25]

 $0=-a\_{3}-a\_{4}\frac{7}{5}∙10^{2}-a\_{5}115∙10^{2}-a\_{6}764∙10^{3}$ [26]

 $0=a\_{3}+a\_{4}1∙10^{2}+a\_{5}75∙10^{2}+a\_{6}5∙10^{5}$ [27]

Iz [27] $a\_{3}=-a\_{4}1∙10^{2}-a\_{5}75∙10^{2}-a\_{6}5∙10^{5}$

 $900^{-1}= a\_{4}1∙10^{2}+a\_{5}75∙10^{2}+a\_{6}5∙10^{5} -a\_{4}8∙10^{1}-a\_{5}49∙10^{2}-a\_{6}272∙10^{3}$ [28] $0=a\_{4}1∙10^{2}+a\_{5}75∙10^{2}+a\_{6}5∙10^{5}-a\_{4}\frac{7}{5}∙10^{2}-a\_{5}115∙10^{2}-a\_{6}764∙10^{3}$ [29]

 $900^{-1}= a\_{4}20+a\_{5}26∙10^{2}+a\_{6}228∙10^{3}$ [30]

 $ 0=-a\_{4}140-a\_{5}4∙10^{3}-a\_{6}264∙10^{3}$ [31]

$900^{-1}= a\_{4}20+a\_{5}26∙10^{2}+a\_{6}228∙10^{3}$ [32]

 $ 0=-a\_{4}140-a\_{5}4∙10^{3}-a\_{6}264∙10^{3}$ [33]

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