

Příklad 2:

Nalezněte všechny (lokální i globální) extrémy funkce $f(x)$ na intervalu $[-1, 1]$, resp. v intervalu $[2, 3]$:

$$f(x) = \frac{x^2 - 1}{x^2 - 5x + 6}$$

x	f(x)
	-10
	-9.9
	-9.8
	-9.7
	-9.6
	-9.5
	-9.4
	-9.3
	-9.2
	-9.1
	-9
	-8.9
	-8.8
	-8.7
	-8.6
	-8.5
	-8.4
	-8.3
	-8.2
	-8.1
	-8
	-7.9
	-7.8
	-7.7
	-7.6
	-7.5
	-7.4
	-7.3
	-7.2
	-7.1
	-7
	-6.9
	-6.8
	-6.7
	-6.6
	-6.5
	-6.4
	-6.3
	-6.2
	-6.1
	-6
	-5.9

-5.8
-5.7
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-4.9
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-2.1
-2
-1.9
-1.8
-1.7
-1.6
-1.5
-1.4
-1.3
-1.2
-1.1
-1
-0.9

-0.8
-0.7
-0.6
-0.5
-0.4
-0.3
-0.2
-0.1
-1.9E-14
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
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9.4
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9.8
9.9
10

Operace s maticemi

	x_1	x_2	x_3
$A =$	1	2	3
	4	5	6
	7	8	1

$b =$	5
	4
	2

Zkouška: $Ax =$	

$A^T =$			

$A * A^{-1} =$			

$A^{-1} =$			

$x = A^{-1} b =$	

$(A^{-1})^{-1} =$			

$A^{-1} * A =$			

Matice

x_1

x_2

x_3

Operace s maticemi 2

	x_1	x_2	x_3	x_4
$A =$	5	8	1	2
	2	5	4	3
	6	8	1	4
	4	9	7	2

$b =$	1
	8
	7
	3

Zkouška:
 $Ax =$

$A^T =$

$A * A^{-1} =$

$A^{-1} =$

$x = A^{-1} b =$

$(A^{-1})^{-1} =$

$A^{-1} * A =$

Matrice2

X_1
 X_2
 X_3
 X_4

