

Jak na Excel

MUNI

Obsah cvičení

Inženýrské - převody číselných soustav

Inženýrské - komplexní čísla

Pavel Lasák

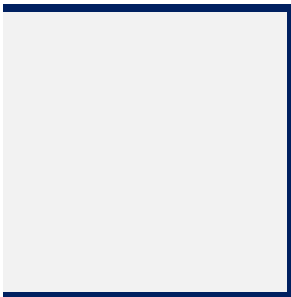
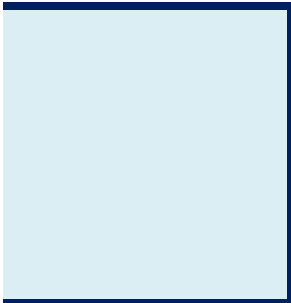
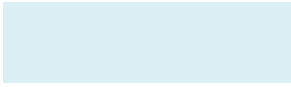


Lektor, expert na Microsoft Excel, držitel prestižního ocenění
Microsoftu MVP v České republice

500

Další informace ke cvičení:

<http://office.lasakovi.com/excel/funkce/konstrukce-funkce-excel/>



Inženýrské - konstrukce - funkce Excel

<http://office.lasakovi.com>

BIN2DEC (BIN2DEC)

Binární soustava	Desítková soustava
10110000	
11111	
100000	

BIN2HEX (BIN2HEX)

Binární soustava	Šestnáctková soustava
10110000	
11111	
100000	

BIN2OCT (BIN2OCT)

Binární soustava	Osmičková
10110000	
11111	
100000	

DEC2BIN (DEC2BIN)

Desítková soustava	Binární soustava
-15	
10	
12	
8	

DEC2HEX (DEC2HEX)

Desítková soustava	
-15	
10	
12	
8	

DEC2OCT (DEC2OCT)

Desitková soustava		
555		
-15		
10		
12		
8		

HEX2BIN (HEX2BIN)

F		
AA		
7		
255		
-1		

HEX2DEC (HEX2DEC)

F	
AA	
7	
255	
-1	

HEX2OCT (HEX2OCT)

F		
AA		
7		
255		
-1		

OCT2BIN

77		
78		

OCT2DEC

77		
78		

OCT2HEX

77		
78		

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176 =BIN2DEC(10110000)
-1 =BIN2DEC(1111111111)
-512 =BIN2DEC(1000000000)

FFFFFFFF =BIN2HEX(1111111111)
3 =BIN2HEX(11)
F

777777777 =BIN2OCT(1111111111)
777777777 =BIN2OCT(1111111111;3)
7 =BIN2OCT(111)
007 =BIN2OCT(111;3)

1010 =DEC2BIN(10)
111111111 =DEC2BIN(511)
1000000000 =DEC2BIN(-512)
#ČÍSLO! =DEC2BIN(-513)
#ČÍSLO! =DEC2BIN(999999999)

22B =DEC2HEX(555)
022B =DEC2HEX(555;4)
000022B =DEC2HEX(555;7)

143	=DEC2OCT(99)
143	=DEC2OCT(99;3)
0143	=DEC2OCT(99;4)
143	=DEC2OCT(99,9;3)
7777777635	=DEC2OCT(-99)
7777777635	=DEC2OCT(-99;3)
7777777635	=DEC2OCT(-99;4)
7777777635	=DEC2OCT(-99,9;3)

1111	=HEX2BIN("F")
01111	=HEX2BIN("F";5)
0000001111	=HEX2BIN("F";10)
#ČÍSLO!	=HEX2BIN("F";15)
#NÁZEV?	=HEX2BIN(F;5)

255	=HEX2DEC("FF")
-1	=HEX2DEC("FFFFFFFF")
68719476735	=HEX2DEC("FFFFFFFF")

377	=HEX2OCT("FF")
0377	=HEX2OCT("FF";4)
0000377	=HEX2OCT("FF";7)
#ČÍSLO!	=HEX2OCT("FF";2)
#NÁZEV?	=HEX2OCT(FF)
20	=HEX2OCT(10)

111111	=OCT2BIN(77)
00111111	=OCT2BIN(77;8)

63 =OCT2DEC(77)

3F =OCT2HEX(77)
003F =OCT2HEX(77;4)

Inženýrské - konstrukce - funkce Excel

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COMPLEX (COMPLEX)

3+4i	=COMPLEX(3;4)
1+2j	=COMPLEX(1;2;"j")
i	=COMPLEX(0;1)
#HODNOTA!	=COMPLEX(0;1;"k")

IMABS (IMABS)

1.414213562	=IMABS("1+i")
3.605551275	=IMABS("2+3i")

IMAGINARY (IMAGINARY)

-1	=IMAGINARY("0-j")
-1	=IMAGINARY("0-i")
4	=IMAGINARY("3+4i")
0	=IMAGINARY(4)
-5	=IMAGINARY("-5i")

IMARGUMENT (IMARGUMENT)

0.785398163	=IMARGUMENT("1+i")
0.927295218	=IMARGUMENT("3+4i")

IMCONJUGATE (IMCONJUGATE)

1-i	=IMCONJUGATE("1+i")
1+i	=IMCONJUGATE("1-i")
6+8i	=IMCONJUGATE("6-8i")

IMCOS (IMCOS)

0,833730025131149-0,988897705762865i	=IMCOS("1+i")
0,437713625217675+1,12692895219814i	=IMCOS("5+i")

IMDIV (IMDIV)

5	=IMDIV("10+10i";"2+2i")
6,25-1,25i	=IMDIV("15+10i";"2+2i")

IMEXP (IMEXP)

1,46869393991589+2,28735528717884i	=IMEXP("1+i")
10,852261914198+16,9013965351501i	=IMEXP("3+i")

IMLN (IMLN)

0,346573590279973+0,785398163397448i	=IMLN("1+i")
1,15129254649702+0,321750554396642i	=IMLN("3+i")

IMLOG10 (IMLOG10)

0,627636252551653+0,34109408846046i	=IMLOG10("3+3i")
0,150514997831991+0,34109408846046i	=IMLOG10("1+i")
0,707486673985409+0,596460374525914i	=IMLOG10("1+5i")

IMLOG2 (IMLOG2)

1,85021985907055+1,41787163074572i	=IMLOG2("2+3i")
0,5+1,1330900354568i	=IMLOG2("1+i")

IMPOWER (IMPOWER)

-12+16i	=IMPOWER("2+4i";2)
122-597i	=IMPOWER("2+3i";5)
4	=IMPOWER("2";2)
4	=IMPOWER(2;2)
#HODNOTA!	=IMPOWER("2+3i";"2+3i")
#NÁZEV?	=IMPOWER(A;2)

IMPRODUCT (IMPRODUCT)

27+11i	=IMPRODUCT("3+4i";"1+2i")
2	=IMPRODUCT("1+i";"1-i")

IMREAL (IMREAL)

6	=IMREAL("6-9i")
6	=IMREAL("6-6j")
3	=IMREAL("3-9i")

IMSQRT (IMSQRT)

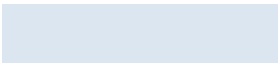
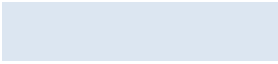
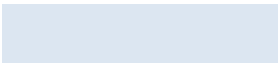
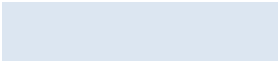
1,09868411346781+0,455089860562227i	=IMSQRT("1+i")
2+2i	=IMSQRT("0+8i")

IMSUB (IMSUB)

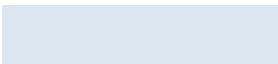
8+i	=IMSUB("13+4i";"5+3i")
0	=IMSUB("13+4i";"13+4")

IMSUM (IMSUM)

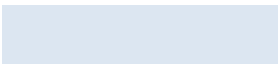
8+i	=IMSUM("3+4i";"5-3i")
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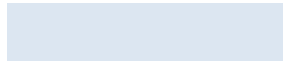


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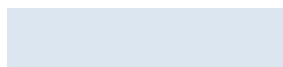
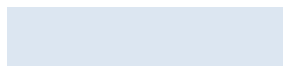
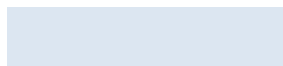
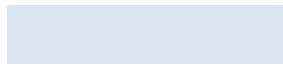
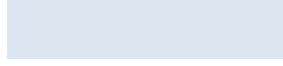


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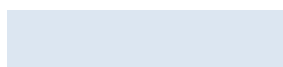




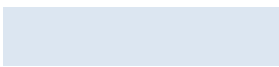
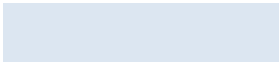
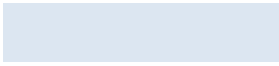
i")
i")



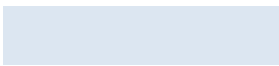
3i")



5-3i")
-i")



)
)



)

