

# Jak na Exc

## Obsah cvičení

Inženýrské - převody číselných soustav

Inženýrské - komplexní čísla

Informace

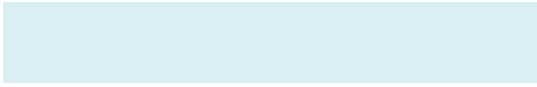
## Pavel Lasák

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Microsoftu MVP v České republice

## Další informace ke cvičení:

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

cel



## Funkce JE.\*\*\*\*\*

- JE.ČÍSLO - ISNUMBER - Jde o číslo?
- JE.CHYBA - ISERR - Jde o chybu?
- JE.CHYBHODN - ISERROR - Jde o chybovou hodnotu?
- JE.LOGHODN - ISLOGICAL - Jde o logickou hodnotu?
- JE.NEDEF - ISNA -
- JE.NETEXT - ISNONTEXT - Jde o netext?
- JE.ODKAZ - ISREF - Jde o odkaz?
- JE.PRÁZDNÉ - ISBLANK - Jde o prázdnou?
- JE.TEXT - ISTEXT - Jde o text?

HODNOTY						
1						
2						
4						
aaa						
3						
10						
15%						
2/1/2016						
4						
#DIV/0!						
2						
PRAVDA						
NEPRAVDA						
#REF!						



# 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)  
#NUM! =DEC2BIN(-513)  
#NUM! =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)
#NUM!	=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)
#NUM!	=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

<http://office.lasakovi.com/>

## 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  
6,25-1,25i

=IMDIV("10+10i";"2+2i")  
=IMDIV("15+10i";"2+2i")

## IMEXP (IMEXP)

1,46869393991589+2,28735528717884i  
10,852261914198+16,9013965351501i

=IMEXP("1+i")  
=IMEXP("3+i")

## IMLN (IMLN)

0,346573590279973+0,785398163397448i  
1,15129254649702+0,321750554396642i

=IMLN("1+i")  
=IMLN("3+i")

## IMLOG10 (IMLOG10)

0,627636252551653+0,34109408846046i  
0,150514997831991+0,34109408846046i  
0,707486673985409+0,596460374525914i

=IMLOG10("3+3i")  
=IMLOG10("1+i")  
=IMLOG10("1+5i")

## IMLOG2 (IMLOG2)

1,85021985907055+1,41787163074572i  
0,5+1,1330900354568i

=IMLOG2("2+3i")  
=IMLOG2("1+i")

## IMPOWER (IMPOWER)

-12+16i  
122-597i  
4  
4

#HODNOTA!  
#NÁZEV?

=IMPOWER("2+4i";2)  
=IMPOWER("2+3i";5)  
=IMPOWER("2";2)  
=IMPOWER(2;2)  
=IMPOWER("2+3i";"2+  
=IMPOWER(A;2)

## IMPRODUCT (IMPRODUCT)

27+11i  
2

=IMPRODUCT("3+4i";"  
=IMPRODUCT("1+i";"1·

## IMREAL (IMREAL)

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

## IMSQRT (IMSQRT)

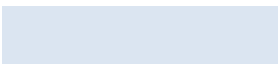
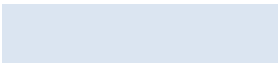
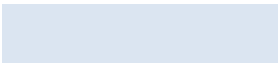
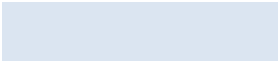
1,09868411346781+0,455089860562227i	=IMSQRT("1+i")
2+2i	=IMSQRT("0+8i")

## IMSUB (IMSUB)

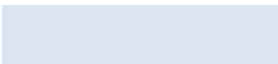
8+i	=IMSUB("13+4i";"5+3i")
0	=IMSUB("13+4i";"13+4")

## IMSUM (IMSUM)

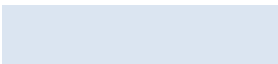
8+i	=IMSUM("3+4i";"5-3i")
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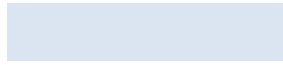


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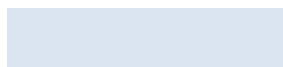
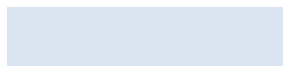
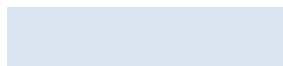
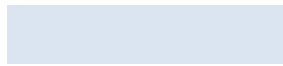
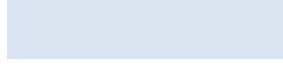


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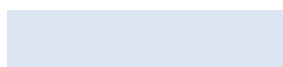




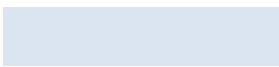
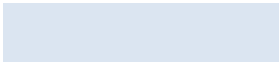
i")  
i")



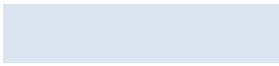
3i")



5-3i")  
-i")



)  
(")



)

