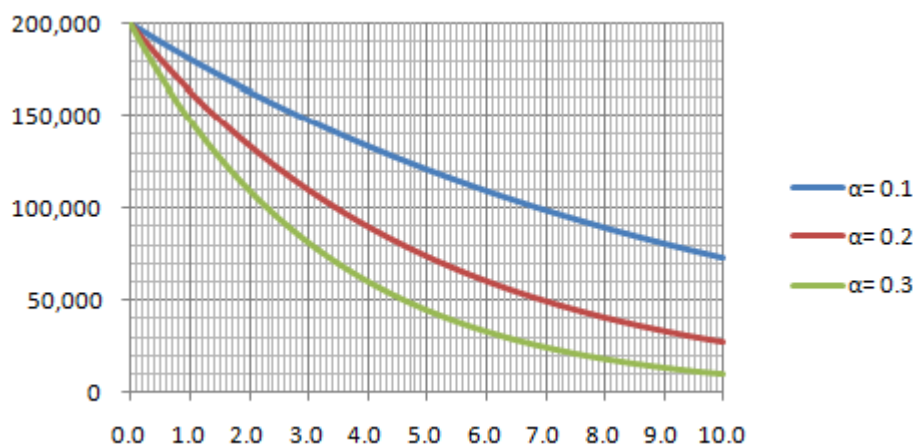


【課題 1-2】

■ Excel の式定義

	A	B	C	D	E	F
1	E <sub>0</sub>	200000	α	0.1	0.2	0.3
2	F	100	x	= "α=" & D1	= "α=" & E1	= "α=" & F1
3	A	20	0	= \$B\$1*EXP(-D\$1*\$C3)	= \$B\$1*EXP(-E\$1*\$C3)	= \$B\$1*EXP(-F\$1*\$C3)
4			0.1	= \$B\$1*EXP(-D\$1*\$C4)	= \$B\$1*EXP(-E\$1*\$C4)	= \$B\$1*EXP(-F\$1*\$C4)
5			0.2	= \$B\$1*EXP(-D\$1*\$C5)	= \$B\$1*EXP(-E\$1*\$C5)	= \$B\$1*EXP(-F\$1*\$C5)
6			0.3	= \$B\$1*EXP(-D\$1*\$C6)	= \$B\$1*EXP(-E\$1*\$C6)	= \$B\$1*EXP(-F\$1*\$C6)
7			0.4	= \$B\$1*EXP(-D\$1*\$C7)	= \$B\$1*EXP(-E\$1*\$C7)	= \$B\$1*EXP(-F\$1*\$C7)
8			0.5	= \$B\$1*EXP(-D\$1*\$C8)	= \$B\$1*EXP(-E\$1*\$C8)	= \$B\$1*EXP(-F\$1*\$C8)
9			0.6	= \$B\$1*EXP(-D\$1*\$C9)	= \$B\$1*EXP(-E\$1*\$C9)	= \$B\$1*EXP(-F\$1*\$C9)
10			0.7	= \$B\$1*EXP(-D\$1*\$C10)	= \$B\$1*EXP(-E\$1*\$C10)	= \$B\$1*EXP(-F\$1*\$C10)
11			0.8	= \$B\$1*EXP(-D\$1*\$C11)	= \$B\$1*EXP(-E\$1*\$C11)	= \$B\$1*EXP(-F\$1*\$C11)
12			0.9	= \$B\$1*EXP(-D\$1*\$C12)	= \$B\$1*EXP(-E\$1*\$C12)	= \$B\$1*EXP(-F\$1*\$C12)
13			1	= \$B\$1*EXP(-D\$1*\$C13)	= \$B\$1*EXP(-E\$1*\$C13)	= \$B\$1*EXP(-F\$1*\$C13)
14			1.1	G		H
15			1.2	0.1	0.2	
16			1.3	= "U(α=" & G1 & ")"	= "U(α=" & H1 & ")"	
				= \$B\$2*(EXP(G\$1*\$C3)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C3)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C4)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C4)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C5)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C5)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C6)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C6)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C7)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C7)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C8)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C8)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C9)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2*(EXP(H\$1*\$C9)-1)/(H\$1*\$B\$3*\$B\$1)	
				= \$B\$2*(EXP(G\$1*\$C10)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	I
				= \$B\$2*(EXP(G\$1*\$C11)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	0.3
				= \$B\$2*(EXP(G\$1*\$C12)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	= "U(α=" & I1 & ")"
				= \$B\$2*(EXP(G\$1*\$C13)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	= \$B\$2*(EXP(I\$1*\$C3)-1)/(I\$1*\$B\$3*\$B\$1)
				= \$B\$2*(EXP(G\$1*\$C14)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	= \$B\$2*(EXP(I\$1*\$C4)-1)/(I\$1*\$B\$3*\$B\$1)
				= \$B\$2*(EXP(G\$1*\$C15)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	= \$B\$2*(EXP(I\$1*\$C5)-1)/(I\$1*\$B\$3*\$B\$1)
				= \$B\$2*(EXP(G\$1*\$C16)-1)/(G\$1*\$B\$3*\$B\$1)	= \$B\$2	= \$B\$2*(EXP(I\$1*\$C6)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C7)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C8)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C9)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C10)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C11)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C12)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C13)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C14)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C15)-1)/(I\$1*\$B\$3*\$B\$1)
						= \$B\$2*(EXP(I\$1*\$C16)-1)/(I\$1*\$B\$3*\$B\$1)

■ ヤング率の変化



■ 変位の変化

