

Exercise 1:

n	0	1	2	3	4	5	6	7	8	9	10
$a(n) = a_n = 2n$	0	2	4	6	8	10	12	14	16	18	20
$b(n) = b_n = n^2$	0	1	4	9	16	25	36	49	64	81	100
$c(n) = c_n = 2^n$	1	2	4	8	16	32	64	128	256	512	1024
$d(n) = d_n = 3n+1$	1	4	7	10	13	16	19	22	25	28	31
$e(n) = e_n = (-1)^n$	1	-1	1	-1	1	-1	1	-1	1	-1	1
$f(n) = f_n = \frac{1}{n}$		1	0,5	$\frac{1}{3} \approx 0,33$	0,25	0,2	$\frac{1}{6} \approx 0,17$	$\frac{1}{7} \approx 0,14$	0,125	$\frac{1}{9} \approx 0,11$	0,1
$g(n) = g_n = \frac{1}{n^2}$		1	0,25	$\frac{1}{9} \approx 0,11$	$\frac{1}{16}$	$\frac{1}{25}$	$\frac{1}{36}$	$\frac{1}{49}$	$\frac{1}{64}$	$\frac{1}{81}$	0,01
$h(n) = h_n = \frac{1}{2^n}$	1	0,5	0,25	0,125	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{128}$	$\frac{1}{256}$	$\frac{1}{512}$	$\frac{1}{1024}$

Exercise 2:

formule	u_0	u_1	u_2	u_3	u_4	u_5	u_6	u_7	u_8	u_9
$a(n+1) = a(n) + 1$	0	1	2	3	4	5	6	7	8	9
$b_{n+1} = b_n + 2$	0	2	4	6	8	10	12	14	16	18
$c(n) = c(n-1) + 2$	1	3	5	7	9	11	13	15	17	19
$d_{n+1} = d_n - 5$	3	-2	-7	-12	-17	-22	-27	-32	-37	-42
$e(n+1) = 2 e(n)$	0	0	0	0	0	0	0	0	0	0
$f_n = 2 f_{n-1}$	1	2	4	8	16	32	64	128	256	512
$g_{n+1} = 2 g_n$	5	10	20	40	80	160	320	640	1280	5120
$h(n) = 5 h(n-1)$	2	10	50	250	1250	6250	31250	156250	781250	3906250
$i_{n+1} = \frac{i_n}{2}$	1	0,5	0,25	0,125	0,0625	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{128}$	$\frac{1}{256}$	$\frac{1}{512}$
$j(n+1) = 3 j(n) - 2$	1	1	1	1	1	1	1	1	1	1
$k_n = 3 k_{n-1} - 2$	2	4	10	28	82	244	730	2188	6562	19684
$l(n) = \frac{1}{l(n-1)}$	3	$\frac{1}{3}$	3	$\frac{1}{3}$	3	$\frac{1}{3}$	3	$\frac{1}{3}$	3	$\frac{1}{3}$