Antwoorden - Oefenmateriaal - V5 wisC

H9: Rijen en Reeksen

1a	Recursief: $u_n = u_{n-1} + 3$ met $u_0 = 48$ Direct: $u_n = 48 + 3n$
1b	Recursief: $u_n = \frac{1}{2} \cdot u_{n-1}$ met $u_0 = 20$ Direct: $u_n = 20 \cdot (\frac{1}{2})^n$
2	1 jan. 2020
3a	323
3b	11,90
4	a=6
5a	72
5b	45
6a	2822
6b	689
7a	$3{,}5n^2 + 4{,}5n + 1$
7b	$n \geq 17$
8	$2n^2 + 14n + 12$
9	$1{,}5n^2 + 1{,}5n$
10a	3594,97
10b	2614,31
10c	13805,76

11a	*
11b	$n \geq 19$
12a	*
12b	$n \geq 8$
13	17, 56, 185, 611, 2018, 6665, 22013
14	9, 34, 115, 1271, 14496, 1629937, 211763953
15a	$u_n = 11{,}3\ mjd \cdot 1{,}074^n$
15b	233,58 mjd
16a	1,1 cm
16b	21,6 cm
16c	41,2 cm
17	a=4,9 | b=9,8 | c = 4,9
18a	268
18b	3060

H10: Kansverdelingen

1a	$\frac{1291}{1296}$
1b	$\frac{427}{432}$
2a	0,370
2b	0,048
2c	0,173
3a	0,328
3b	0,738
3c	0,336
4	22 t/m 28
5a	0,197
5b	0,017
5c	0,046
6a	x | 1 | 2 | 3 | 4 $P(X = x)$ | $\frac{4}{7}$ | $\frac{2}{7}$ | $\frac{4}{35}$ | $\frac{1}{35}$
6b	$E(X) = 1{,}6 \mid \sigma_X = 0{,}8$

7a	0,246
7b	0,081
8a	0,576
8b	0,998
9a	0,085
9b	0,002
10	140
11a	68%
11b	95%
12a	0,0002
12b	0,040
12c	0,002
12d	0,012

H11: Allerlei functies

1a	$x = -3$ v $x = 3$
1b	$x = 0$ v $x = 1$
1c	$x = 8{,}5$
1d	$x = 29$
1e	$x = 11$
1f	$x = -1$ v $x = 4$
1g	$x = 5$
1h	$x = \frac{3}{4}$
2a	$D_f = \langle \leftarrow, \rightarrow \rangle \mid B_f = \langle \leftarrow, 0]$
2b	$D_g = \langle \leftarrow, \rightarrow \rangle \mid B_g = \langle \leftarrow, \rightarrow \rangle$
2c	$D_h = [-1, \rightarrow \rangle \mid B_h = [0, \rightarrow \rangle$
2d	$D_i = \langle \leftarrow, 2] \mid B_i = \langle \leftarrow, -2]$
2e	$D_j = \langle \leftarrow, 6 \rangle \cup \langle 6, \rightarrow \rangle \mid B_j = \langle \leftarrow, 0 \rangle \cup \langle 0, \rightarrow \rangle$
2f	$D_k = \langle \leftarrow, -3 \rangle \cup \langle -3, \rightarrow \rangle \mid B_k = \langle \leftarrow, 4 \rangle \cup \langle 4, \rightarrow \rangle$
3a	$-4 \leq x \leq 4$
3b	$x > 3$
3c	$x \geq 15$
3d	$x < -1$ v $x > -\frac{1}{2}$
4a	max. $(5, 8)$
4b	min. $(0, 7)$
4c	max. $(-3, 2)$
4d	pvs. $(1, 0)$
4e	min. $(-2, -4)$

5a	$y = 5(x-8)^6 - 3$
5b	$y = -(x-6)^3 + 5$
5c	$y = 3\sqrt{2(x-4)} - 6$
5d	$y = \frac{1}{x+2} + 4$
6a	H.A. $y = 0$
6b	H.A. $y = 0$
6c	H.A. $y = 4$
6d	H.A. $y = 0$ en V.A. $x = 0$
6e	H.A. $y = 120$ en V.A. $x = -70$
6f	H.A. $y = 2$ en V.A. $x = \frac{4}{5}$
7a	$8a^{10}$
7b	$128a^{21}$
7c	$5a^6$
7d	$7a^5$
8a	$3a^{-2}$
8b	a^{-11}
8c	a^{-6}
8d	$4a^{-\frac{1}{2}}$
9a	$y = 3x^2$
9b	$y = 9x^{10}$
9c	$y = 25 \cdot 8^x$
9d	$y = 275 \cdot (\frac{1}{25})^x$