

Corrigé

1. $u_0 = 7 \times 0 + 1 = 1$; $u_1 = 7 \times 1 + 1 = 8$; $u_2 = 7 \times 2 + 1 = 15$
 $u_3 = 7 \times 3 + 1 = 22$; $u_4 = 7 \times 4 + 1 = 29$

2. $v_0 = 0^2 - 3 \times 0 + 1 = 1$; $v_1 = 1^2 - 3 \times 1 + 1 = -1$
 $v_2 = 2^2 - 3 \times 2 + 1 = -1$; $v_3 = 3^2 - 3 \times 3 + 1 = 1$
 $v_4 = 4^2 - 3 \times 4 + 1 = 5$

3. $w_0 = \frac{1}{2 \times 0 - 1} = \frac{1}{-1} = -1$; $w_1 = \frac{1}{2 \times 1 - 1} = \frac{1}{1} = 1$

$w_2 = \frac{1}{2 \times 2 - 1} = \frac{1}{3}$; $w_3 = \frac{1}{2 \times 3 - 1} = \frac{1}{5}$

$w_4 = \frac{1}{2 \times 4 - 1} = \frac{1}{7}$

4. $t_0 = \sqrt{5 \times 0 + 1} = \sqrt{1} = 1$; $t_1 = \sqrt{5 \times 1 + 1} = \sqrt{6}$
 $t_2 = \sqrt{5 \times 2 + 1} = \sqrt{11}$; $t_3 = \sqrt{5 \times 3 + 1} = \sqrt{16} = 4$
 $t_4 = \sqrt{5 \times 4 + 1} = \sqrt{21}$