

E1:

$$(U_0) 0^2 + 4 \times 0 = 0$$

$$(U_1) 1^2 + 4 \times 1 = 5$$

$$(U_2) 2^2 + 4 \times 2 = 12$$

$$(U_3) 3^2 + 4 \times 3 = 21$$

$$(U_4) 4^2 + 4 \times 4 = 32$$

$$(U_5) 5^2 + 4 \times 5 = 45$$

2. Nombres entiers peuvent se multiplier par eux même ou 0.

$$2. V_n = \frac{2}{n} = 4n$$

$$\frac{2}{0} + 4 \times 0 = 0$$

$$\frac{2}{1} + 4 \times 1 = 6$$

$$\frac{2}{2} + 4 \times 2 = 9$$

$$\frac{2}{3} + 4 \times 3 = 12,6$$

$$\frac{2}{4} + 4 \times 4 = 16,5$$

$$3) \frac{4}{n+1}$$

$$1) \frac{4}{0+1} = 4$$

$$2) \frac{4}{1+1} = \frac{4}{2} = 2$$

$$3) \frac{4}{2+1} = \frac{4}{3} = 0,8$$

$$4) \frac{4}{3+1} = 1$$

$$5) \frac{4}{4+1} = \frac{4}{5}$$

4.

$$\frac{n}{n^2+1}$$

$$\frac{4}{0^2+1} = 0$$

$$\frac{4}{1^2+1} = 2$$

$$\frac{4}{2^2+1} = \frac{4}{5} = 0,8$$

$$\frac{4}{3^2+1} = \frac{2}{5} = 0,4$$

$$\frac{4}{4^2+1} = \frac{4}{17} \approx 0,2$$

E2:

1. $U_0 = -2$

$$2 \times (-2) - 4 = -6$$

$$U_1 = -1$$

$$U_2 = 0$$

$$U_3 = 1$$

$$U_4 = 2$$

$$U_5 = 3$$