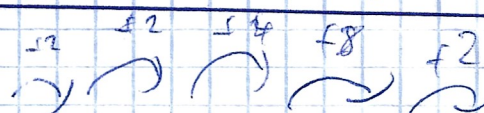


Arbeitsblatt 1.1 am 08.11.22 von Stevan Kojic

Bsp's) 5d, 2e, 1d



5d)

$$\langle a_n \rangle = \langle 6, 8, 12, 20, 36, 68 \rangle$$

2

$$a_n = 2^{n+4}$$

$$a_1 = 6$$

$$a_{n+1} = a_n + 2^{n+1}$$

$$a_n = a_{n-1} + 2^{n-1}$$

$$a_n = 2^{n-1} + 6$$

2e)

$$a_1 = 1$$

$$a_2 = 2$$

$$a_{n+2} =$$

$$\frac{a_n - a_{n+1}}{2}$$

$$\frac{a_n - a_{n+1}}{2} = 1 - 2$$

$$a_5 = \frac{-1 - 1.25}{2} =$$

$$a_3 = \frac{1 - 2}{2}, a_4 = \frac{2 + \frac{1}{2}}{2} = 1.25$$

$$a_6 = \frac{1.25 + 0.1875}{2} =$$

1d)

$$a_n = n^3 - n^2 + 2$$

$$a_n = \langle 2, 6, 20, 50, 102, 182, 296, 456 \rangle$$