

POSLOUPNOSTI

• ARITMETICKÁ'

d... DIFERENCE ⊕

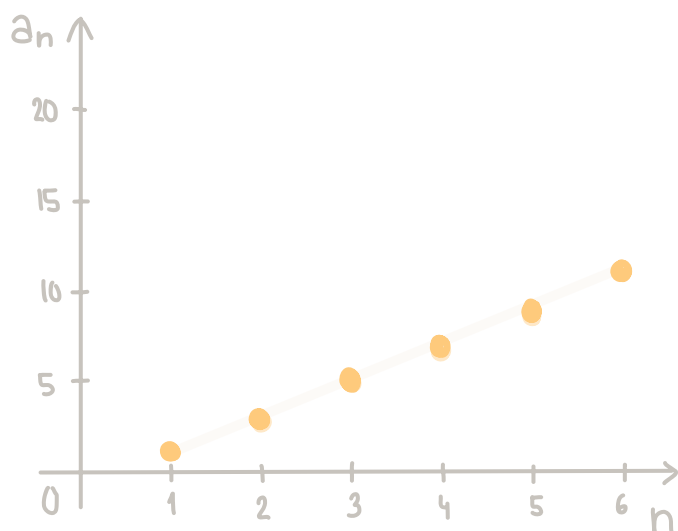
$$a_{n+1} = a_n + d$$

$$a_n = a_1 + (n-1)d$$

$$a_s = a_r + (s-r)d$$

$$S_n = \frac{n}{2} (a_1 + a_n)$$

pr. $\overset{+2}{\curvearrowright} \overset{+2}{\curvearrowright} \overset{+2}{\curvearrowright} \overset{+2}{\curvearrowright} \overset{+2}{\curvearrowright}$
1, 3, 5, 7, 9, 11,



• GEOMETRICKÁ'

q... KVOCIENT ⊗

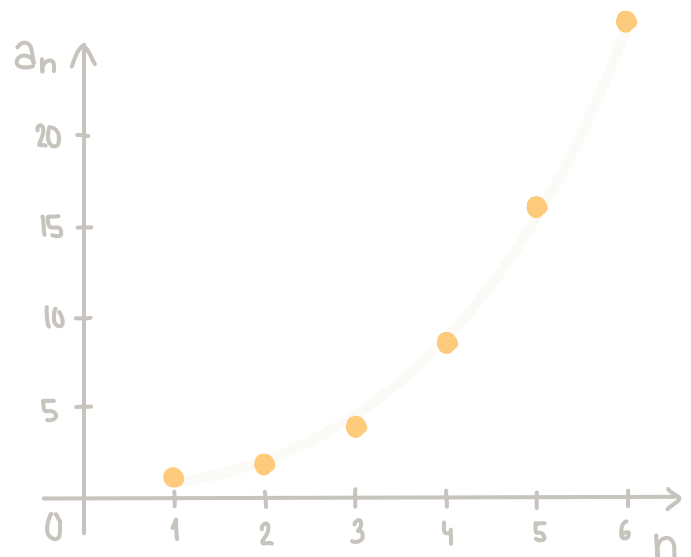
$$a_{n+1} = a_n \cdot q$$

$$a_n = a_1 \cdot q^{n-1}$$

$$a_s = a_r \cdot q^{s-r}$$

$$S_n = a_1 \cdot \frac{q^n - 1}{q - 1}$$

pr. $\overset{\cdot 2}{\curvearrowright} \overset{\cdot 2}{\curvearrowright} \overset{\cdot 2}{\curvearrowright} \overset{\cdot 2}{\curvearrowright} \overset{\cdot 2}{\curvearrowright}$
1, 2, 4, 8, 16, 32,



FINANČNÍ MATEMATIKA

A) JEDNORÁZOVÁ ČÁSTKA

- vzrůst hodnoty

$$a_n = a_0 \left(1 + \frac{P}{100}\right)^n$$

- pokles hodnoty

$$a_n = a_0 \left(1 - \frac{P}{100}\right)^n$$

B) PRAVIDELNÁ ČÁSTKA

- spoření

$$a_n = a \cdot \left(r \cdot \frac{r^n - 1}{r - 1}\right)$$

- splácení

$$S = K \cdot \left(r^n \cdot \frac{r - 1}{r^n - 1}\right)$$

$$r = 1 + \frac{P}{100}$$

* daň 15 % $1 + \frac{P}{100} \cdot 0,85$

