

08.06.18

$$S_{n+1} = \frac{1}{n} \sum_{i=1}^n T_i$$

$$= \frac{1}{n} \sum_{i=1}^{n-1} T_i + \frac{1}{n} \cancel{T_n}$$

$$= \frac{n-1}{n} \cdot \frac{1}{n-1} \cdot \underbrace{\sum_{i=1}^{n-1} T_i}_{S_n} + \frac{1}{n} \cdot T_n$$

$$= \frac{n-1}{n} \cdot S_n + \frac{1}{n} \cdot T_n$$

$$S_n = \frac{1}{n-1} \sum_{i=1}^{n-1} T_i$$