

1) $1 / 1^4 + 1 / 4^7 + 1 / 7^10 + \dots + 1 / (3n-2)(3n+1) + \dots$

2) $1 + 2 \cdot \frac{1}{3} + 3 \cdot \left(\frac{1}{3}\right)^2 + 4 \cdot \left(\frac{1}{3}\right)^3 + \dots + (n-1) \left(\frac{1}{3}\right)^{n-2} + n \left(\frac{1}{3}\right)^{n-1} + \dots$