

③

FABIAN TI'MEA MIKOLETT

RDDZXA

$$\textcircled{3} \lim_{n \rightarrow +\infty} \frac{3n^3 - 2n^2 + 3}{2n^2 - n + 1} = +\infty$$

$$\forall \omega \in \mathbb{R} \exists N \in \mathbb{N}_0 \forall n \in \mathbb{N}_0 \Rightarrow x_n > \omega$$

$$\frac{3n^3 - 2n^2 + 3}{2n^2 - n + 1} > \frac{3n^3 - 2n^2}{2n^2 - n + 1} > \frac{3n^3 - 2n^3}{2n^2 - n^2 + n^2} =$$

$$= \frac{n^3}{2n^2} = \frac{n}{2} > \omega \Rightarrow n > 2\omega$$

$$N = [2\omega] + 1$$