

Übungen in Analysis  $\diamond$  Exercices en analyse  $\diamond$  T. B2  $\diamond$  I / 11

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**Probl. 1**  $\langle a_n \rangle = \langle 1 - (\frac{1}{2})^n \rangle \quad \rightsquigarrow a_n \rightarrow ?$

**Probl. 2**  $\langle a_n \rangle = \langle \frac{\cos(3n)}{n} \rangle \quad \rightsquigarrow a_n \rightarrow ?$

**Probl. 3**  $\langle a_n \rangle = \langle \frac{2 + \frac{1}{n} - \frac{3}{n^2} + 4n}{1 - n + \frac{4}{n}} \rangle \quad \rightsquigarrow a_n \rightarrow ?$

**Probl. 4**  $\langle a_n \rangle = \langle e^{\frac{1}{n}} \rangle \quad \rightsquigarrow a_n \rightarrow ?$

**Probl. 5**  $\langle a_n \rangle = \langle \frac{\ln(n)}{n^2} \cdot \sin(n) \rangle \quad \rightsquigarrow a_n \rightarrow ?$