```
Becisnetodes
       1. Dickle bews
2. Kombra position
3. Bews red modertisk
              Makmatsk induktion
              A => B
         A \Rightarrow A_1 \Rightarrow A_2 \Rightarrow ... \Rightarrow B
          A: S_{n} = q^{\circ} + q^{\dagger} + q^{2} + ... + q^{n}, |q| < 1

B: S_{n} = \frac{1 - q^{n+1}}{1 - q}
        Su = 1 + q + q2 + -- + q4
qSu = q + q2 + ... + q4 + q4+1
    (1-q) Sn = 1-q"+1
  2. \quad (\neg \beta \Rightarrow \neg A) \iff (A \Rightarrow B)
    (A \Rightarrow B) \iff (\neg A \lor B)
      V: eller
                          B
       (\neg \beta \Rightarrow \neg A)
                                \stackrel{(r)}{(r)} \left( \begin{array}{c} \mathcal{B} & \mathsf{v} - \mathsf{A} \end{array} \right) 
 \stackrel{(r)}{(r)} \left( \begin{array}{c} \mathsf{A} \Rightarrow \mathcal{B} \end{array} \right) 
  &: neN
           n² er lige => n lige
           7 B: n where prod. of to where tal
            =) non ulige of
             =) 7 A
                                                      3. Bevis red modstrid
        A \Rightarrow B estroyonal inflorence of (73 \land A) =) afficery. Ostogonal
                                       (2 ^
      frakmatrik induletion

An >> Bn for alle n EN
4.
        i) A. => B.
eller A. => B.
       2) Antay at An ⇒ 3n er saudt
Vis at Ann ⇒ Bn+1.
     An ( Su = 9° + 9' + ... + 9"
  \exists S_n : S_n = \frac{1 - q^{n+1}}{1 - q}
                 S_{o} = q^{0} = 1
S_{o} = \frac{1 - q^{0+1}}{1 - q}
             S_{n} = q^{\circ} + \dots + q^{n}
\Rightarrow S_{n} = \frac{1 - q^{n+1}}{1 - q}
                                                            W
           \begin{array}{lll} V(s), & S_{n+1} = q^{o} + \ldots + q^{n+1} \\ \Rightarrow & S_{n+1} = \frac{1 - q^{n+2}}{1 - q} \end{array}
          Sun = g° + q + ... + q
                               -q + q (1-q)
                             1-94+2
                                                        1
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