$$\lim_{N\to 0} \frac{(-u)^{n}+57^{n}}{(-u)^{n-1}+7^{n+2}} = (1)$$

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$$\lim_{N\to 0} \frac{(-u)^{n}+57^{n}}{(-u)^{n}+7^{n+2}} = 7^{n} \left(\frac{(-u)^{n}+5}{7^{n}}+7^{3}\right) = 7^{n} \left(\frac{(-u)^{n}+7^{3}}{7^{n}}+7^{3}\right) = 7^{n} \left(\frac{(-u)^{n}+7^{3}}{7^{n}}+7^{3}\right) = 7^{n} \left(\frac{(-u)^{n}+7^{3}}{7^{n}}+7^{3}\right) = 7^{n} \left(\frac{(-u)^{n}+7^{n}}{7^{n}}+7^{n}}\right) =$$