$$\mathbb{R}_n \equiv [1-2(n \bmod 2)] \left(\frac{\left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor^2 + \left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor}{2} - \left\lfloor \frac{n}{2} \right\rfloor - 1 + \sum_{k=0}^{\max\left(0,1+\left\lfloor \log_b\left(\left\lfloor \frac{n}{2} \right\rfloor - \frac{\left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - 1}{2} \left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor \right) \right\rfloor\right)} \left(\frac{1}{b} \left\lfloor \frac{\left\lfloor \frac{n}{2} \right\rfloor - \frac{\left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - 1}{2} \left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor}{b^k} \right\rfloor \bmod 1 \right) \exp\left(\max\left(0, 1 + \left\lfloor \log_b\left(\left\lfloor \frac{n}{2} \right\rfloor - \frac{\left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - 1}{2} \left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor \right) \right\rfloor \right) \right) \ln b - k \ln b \right) \Bigg/ \exp\left(\max\left(0, 1 + \left\lfloor \log_b\left(\left\lfloor \frac{n}{2} \right\rfloor - \frac{\left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - 1}{2} \left\lfloor \frac{\operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \operatorname{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor \right) \right\rfloor \right) \right) \ln b \right) \quad \forall n \in \mathbb{N}_0,\ \text{base } b$$