1) eps: $\frac{\beta}{2} \cdot \beta^{-n} = 5 \cdot 10^{-10}$

$x = 1 \cdot 10^{-10}$

$1 + 10^{-10} = 1$

$\sqrt{10^{-10}} = 10^{-5}$

$\frac{10^{-10}}{10^{9}} = 10^{-19}$