

2) (5 pts) ANL (Algorithm Analysis)

An algorithm to find a particular value among n total values takes $O(\log(n))$. On a data set with $n = 2^{30}$, it took 1.2 seconds to find the desired value. How many **milliseconds** will it take to find a value in a data set with $n = 2^{20}$? (Note: For ease of computation, you may use a logarithm with base 2.)