## Summer 2020 Algorithms and Analysis Tools Exam, Part A

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.)

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