Question 1

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The population N of a town, after t years, is given by the formula $N = N_e^{0.04t}$, where N_0 is the initial population. Which expression represents the number of years it takes until the town has doubled its population?

- a) $\frac{2\log_e 100}{5}$
- b) $4 \log_e 2$
- c) $2\log_e 25$
- d) $25 \log_e 2$