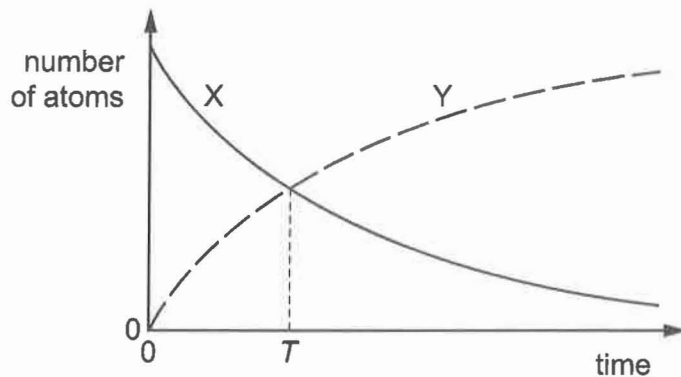


- 40** The graph represents the decay of a newly-prepared sample of a radioactive nuclide X to a stable nuclide Y. The half-life of X is τ .

The growth curve for Y intersects the decay curve for X after time T .



What is the time T ?

- A** $\ln\left(\frac{\tau}{2}\right)$ **B** $\ln(2\tau)$ **C** τ **D** 2τ

