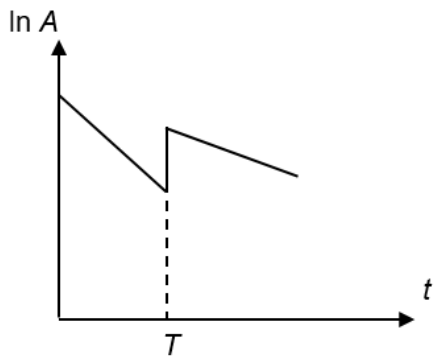
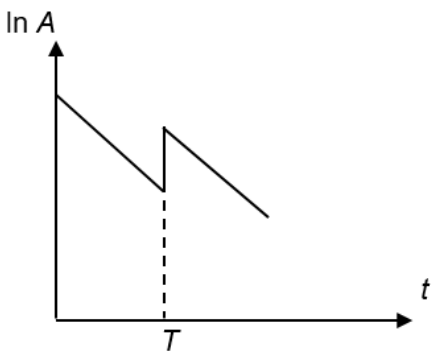
30 At time $t = 0$, some radioactive gas is injected into a sealed vessel. At time T, a different radioactive gas with a half-life very much shorter than the first is injected into the same vessel.

Which one of the following graphs best represents how activity A varies with t?

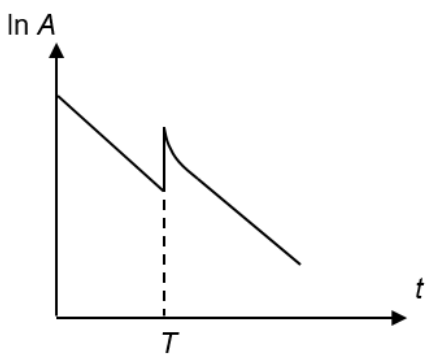
A



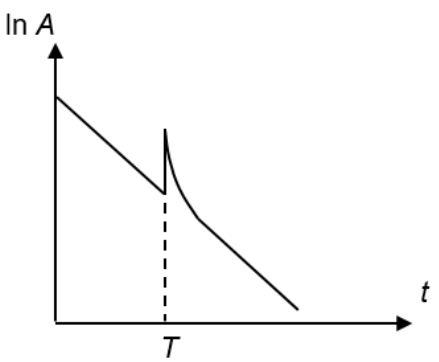
B



C



D



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