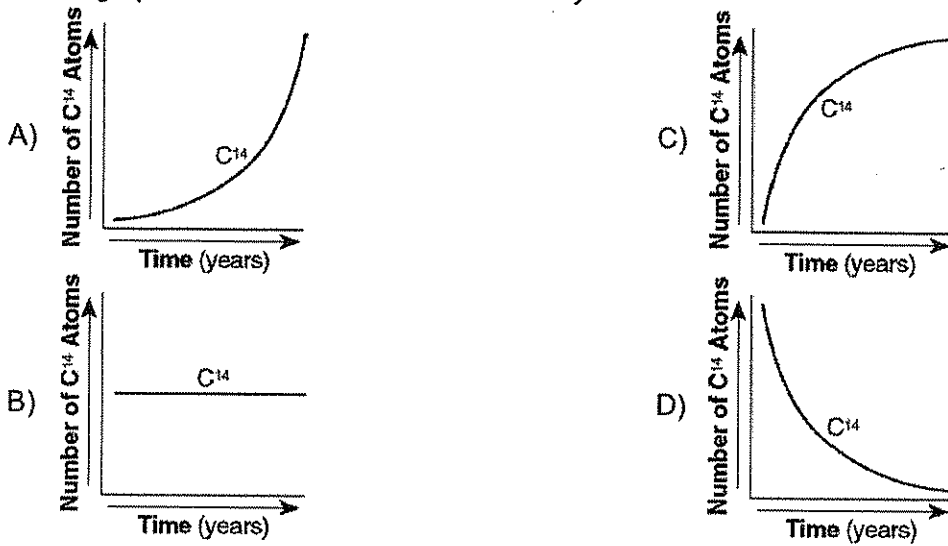
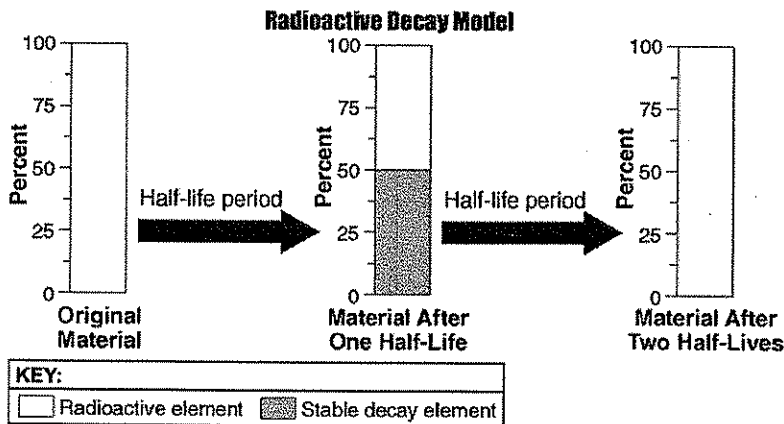


Which graph best shows the radioactive decay of carbon-14?

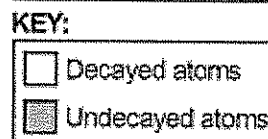
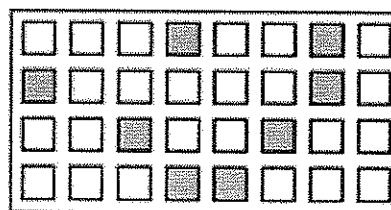


The diagram below represents a model of the radioactive decay of a particular element. The diagram shows the decay of a radioactive element (□) into the stable decay element (■) after one half-life period.

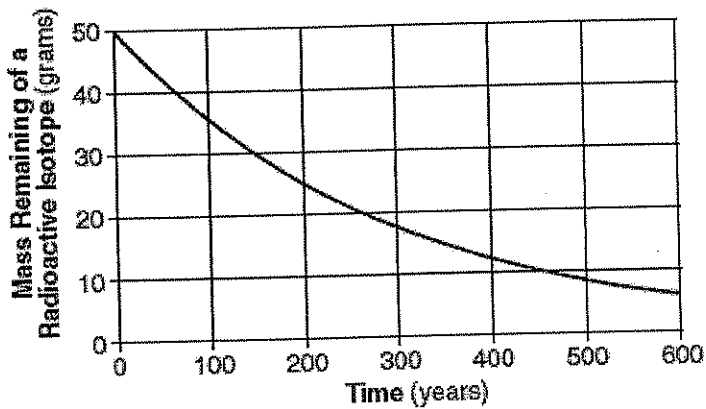


871) On the diagram provided, shade in the amount of stable decay element present after the second half-life period.

How many half-lives has the parent undergone?



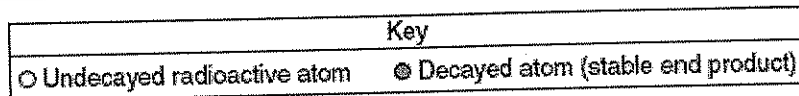
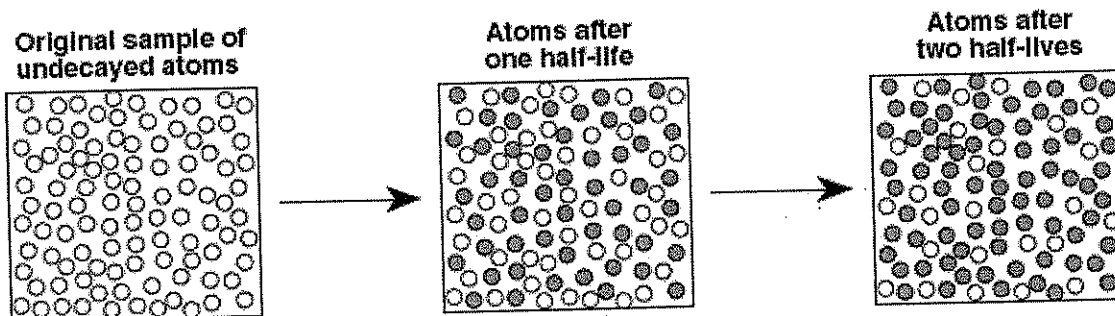
The graph below shows the radioactive decay of a 50-gram sample of a radioactive isotope.



According to the graph, what is the half-life of this isotope?

- (1) 100 years
- (2) 150 years
- (3) 200 years
- (4) 300 years

15 The models below represent the decay of radioactive atoms to stable atoms after their first and second half-lives.



Which model best represents the number of undecayed and decayed atoms after three half-lives?

