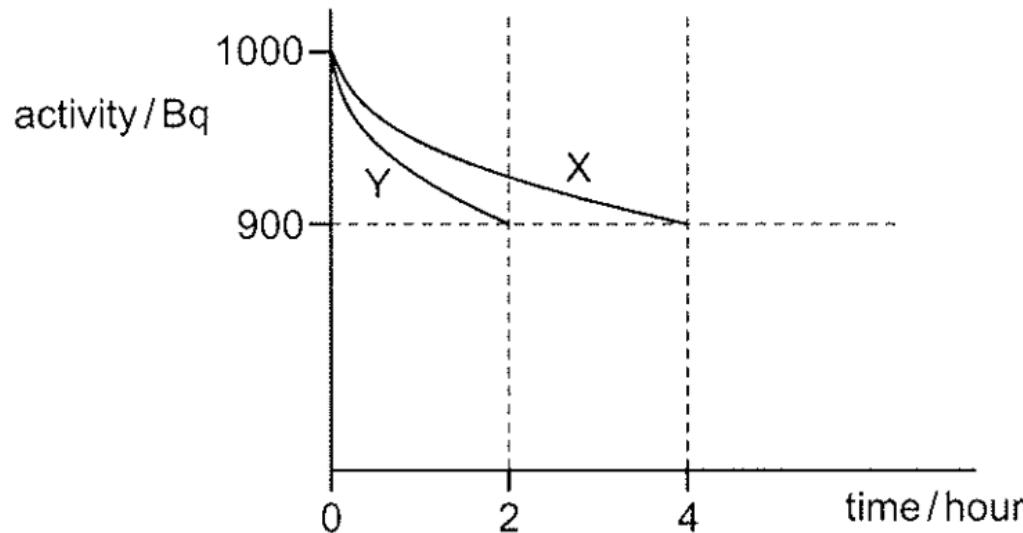


39 The graph shows how the activities of two isotopes X and Y vary with time.



What will be the ratio $\frac{\text{activity of X}}{\text{activity of Y}}$ after each has decayed for 8 hours?

A $\frac{9}{10}$

B $\frac{10}{9}$

C $\frac{81}{100}$

D $\frac{100}{81}$