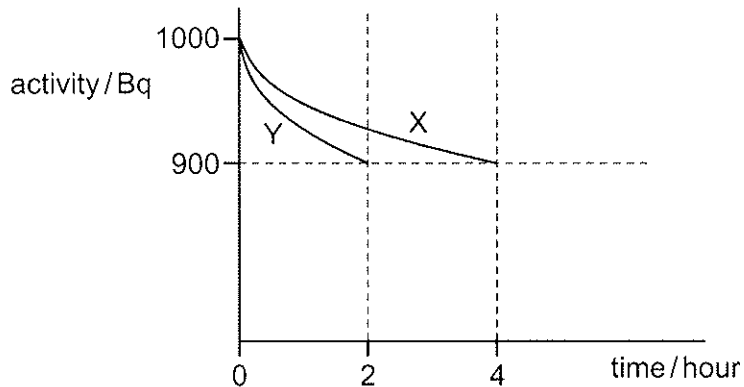


39 The graph shows how the activities of two isotopes X and Y vary with time.



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**  $\frac{100}{81}$