

LECTURE 9

RELATED PROBLEMS

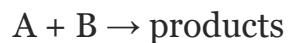
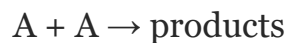
1)

33. An elementary reaction between A and B is a second order reaction. Which of the following rate equations must be correct?

- (a) $r = k[A]^2[B]^0$ (b) $r = k[A]^{3/2}[B]^{1/2}$ (c) $r = k[A]^0[B]^2$ (d) $r = k[A][B]$

ANSWER : D

SOLUTION: For elementary reaction of second order where the rate of the chemical reaction depends on the concentration of the two chemical species that are the reactants.



SO Option D IS CORRECT.