

AFCoKaRE Practice Problem 6.3 Solution

Purpose: This problem allows you to practice determining whether there is a linear combination of steps in a mechanism that sums to give the corresponding non-elementary reaction and to practice writing an expression for the rate of a non-elementary reaction with respect to one of its reactants or products in terms of the rates of the steps in its mechanism.

Problem Statement: Reaction (1) is non-elementary; it has been proposed to occur via the mechanism consisting of reactions (2) through (5). Show that this is a valid mechanism and write an expression for the rate of reaction (1) with respect to I_2 .

