() A sortuation where the natio of roate constants is not the equilibrium Cookfant. Let us corrider the reaction as If the system is at complete equilibrian Jollows $\left(\begin{array}{c} \left[\begin{array}{c} x \\ \end{array}\right] \right) = \frac{k_1}{k_1}$ and $\left(\begin{array}{c} \left[\begin{array}{c} z \\ \end{array}\right] \right) = \frac{k_2}{k_2}$ and $k_1 k_2 = (x_1)$ =(Z) = Kc Again, let us consider two limiting entuations: 1) At the very beginning of the reaction before ang X and I have accumulated, -d[A] = k, [A] [Assuming

A k, (No x ip) Since the aleeve said initially)
opposing meaction, wherever you we
estart of their from a series of esart eisher from A or Ziffinally the reaction relates to the equili brium condition, where A, x and & will be in equilibrium. don't need to write in exam!!!

D'Tuerefore, if one wants with pure Z and measures - del = k2[Z] Since, we compute of rotters of consumptions of the reactant A and product 2 at the very beginning not at the equilibrium condition, - de + - de · KIAT + K_2[Z] Reoneonber $k_c = (\overline{z})$ $k_c = (\overline{z})$ $k_c = (\overline{z})$ $k_c = (\overline{z})$ $k_c = (\overline{z})$ Applying the steady state approximating d[x] = k, [A] - (k, +k2)[x] + k, [Z] the net roate of consumption of A

The net roate of consumption of A

is - d[A] = k, [A] - k, [X]

- eq. 24

Introduction of the expression for [x] (see . eq. x) in the (eq. va) gives 一端二水四一水区 = R, [A] - R, R, [A] + R2[Z]
- R, [A] - R, R, + R2 = k, [A] - R, R, [A] + R, R, [Z]

- R, [A] (R, + R2) - R, R, [A] + R, R, [Z]

P. P. P. R-1 + R2 - RETAT+RREAT-RREAT+RREAT the first term its ?

The first term its ?

The reaction the reaction left to beight and the route company its ky kz.

Ky the Toly is the first term called the left to soight?] Ans: If you covoider only ten finos term, - d[A] ~ that means the reaction of A -> 2.

Similarly, the state correspond from sught to left is $\frac{1}{k_1}\frac{k_2}{k_2}$ The soutio of the two rate constants k, k2 (k, + k2) = k, k2 (k, + k2) = k, k2 is equal to the equilibrium