GENERAL KINETICS

Take a general rearbion:

then, rate =
$$r = \frac{1}{a} \frac{d[A]}{dt} = -\frac{1}{b} \frac{d[B]}{dt} = \frac{1}{c} \frac{d[C]}{dt} = \frac{1}{d} \frac{d[D]}{dt}$$

To undestand this, put its some number, e.g. a=1, 5=0, c=2, d=0

then
$$v = -\frac{d[A]}{db} = \frac{1}{2} \frac{d[C]}{dt}$$
 for $A \to 2C$

-ve because rate of carsuption of real bomb

Erobe of wrsupplier of A is half lie twice as slow) as rate of production of C. - This Makes serve because we make 2 moles of C for each mole of A consumed. i.e. rate of production of C is Zx rate oop consplien of A.

Mue corplex: a=1, b=2, c=1/2, d=3

 \Rightarrow A + ZB \rightarrow 2C + 3D Ais Consumed 3 lines more slowly than Dis produced. $V = -\frac{d(A)}{dt} = \frac{-1}{2}\frac{d(B)}{dt} = 2\frac{d(C)}{dt} = \frac{1}{3}\frac{d(D)}{dt}$

robes relative A is used up to this half as quides as 15 Cis produced as A is wound