Problem 1

(all Mc See that

$$K = 8.3.10^{-11} = \frac{COJ C(12)}{CCOC12J} = \frac{CCOJ^2}{CCOC12J} = \frac{CCOJ^2}{CCOC12J} = 0.0467$$

Problem 2

(a): to the products
(b): To the reactants

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Cal: $0.0142 = \frac{(N0)^2 [Br_2]}{(N0Br_1)^2} = \frac{(N0Br_1)^2}{(N0Br_1)^2}$

Let's transiting a table:

NOBr Brz NO
2 0 0
2-3x + X +2x

Plug In:

4x3

 $0.0142 = \frac{4x^3}{4+9x^2-6x}$

 $4.0.0142 + 9.0.0142 \cdot x^2 - 6.0.0142 x = 4 x^3$ By a TI-84, x=0.227 and thus $B_{r_2} = 0.227$ N0 = 0.454 $COCl_2 = 1.319$