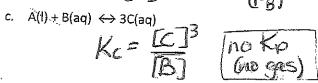
Write the equilibrium expression for the following chemical reactions.

- 1. For each of the following, provide a Kc and a Kp expression.
 - a. $A(aq) + B(s) \leftrightarrow C(g)$

b. $2A(s) + B(g) \leftrightarrow 2C(g)$

$$K_e = \frac{(Q_a)^2}{(B_a)}$$
 $K_p = \frac{(Q_a)^2}{(P_a)}$



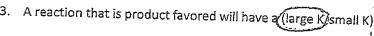
d. $Ag_2 SO_4(s) \leftrightarrow Ag^4_{(aq)} + SO_4^{-2}_{(aq)}$ (Balance me please)

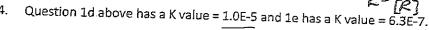


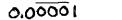
PbSO₄(s) \leftrightarrow Pb⁺² + SO₇⁻² (provide balanced dissolving equation)

Reaction Extent

A reaction that goes to greatly to extent produces a lot of (products) reactants)







0.00000063

a. Which reaction will produce more product at equilibrium?

7 Id - larger Kwill have more product
b. Is the answer from letter a considered product favored?

K=1.0E-5 is less than I and is readant

- 5. Reaction A(s) + B(aq) \leftrightarrow 2C(aq)
 - a. Top beaker has a K = 1.0 E-10 reactant favored favored

b. Bottom beaker has a k = 1.0K=\ -

Draw the beaker at equilibrium

