3

- Calculate the equilibrium constant for the following reaction.

$$AgI(s) + 2CN^-(aq) \rightleftharpoons [Ag(CN)_2]^-(aq) + I^-(aq)$$
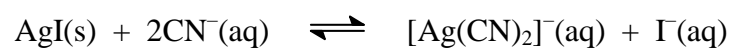
Data: K_{stab} of $[Ag(CN)_2]^- = 3 \times 10^{20}$; K_{sp} of $AgI = 8.3 \times 10^{-17}$

Answer: