$1 \cdot H_2(g) + 1 \cdot I_2(g) \rightleftarrows 2\,HI(g)$

$t = 0$	0	0	$0.015\ mol$
$t = GW$	$+x$	$+x$	$0.015 - 2x$ $\quad 0.015 - y$

$K = 50$

$$Anzahl(H_2) = \frac{1}{2}\,Anzahl(HI)$$

$$\Rightarrow \quad 2 \cdot Anzahl(H_2) = Anzahl(HI)$$

$$50 = \frac{(0.015 - 2x)^2}{x \cdot x} \qquad \text{"Ansatz"}$$

$$50 = \frac{(0.015 - y)^2}{\left(\frac{y}{2} \cdot \frac{y}{2}\right)} \qquad \text{"Ansatz"}$$

$$50 = \frac{(0.015 - 2\,x)^2}{x^2}$$

Solutions:

$$x \approx -0.00295796$$

$$x \approx 0.00165361$$

Input:

$$50 = \frac{(0.015 - y)^2}{\frac{y}{2} \times \frac{y}{2}}$$

$$y \approx -0.00591591$$

$$y \approx 0.00330722$$