



I	1	0.52	0	-
C	-x	-x	+x	-
E	1-x	0.52-x	x	

$$\frac{1}{K_a} = \frac{x}{(1-x)(0.52-x)} \quad \text{pH} = 4.709987661$$

$$x = 0.519980501$$

$$\text{pH} \approx 4.71 \quad \text{X wrong!}$$

$$\text{Ans: } 4.780$$