

pH @ V_{eq} pH $\gg 7$

$$K_a = 6.31 \times 10^{-5}$$

mol acid = mol ~~base~~ base

$$0.057 \frac{\text{mol A}}{\text{L}} \times 0.05 \text{ L} \times \frac{\text{mol B}}{\text{mol A}} \times \frac{1}{0.0723 \text{ mol B}} \times \frac{1000 \text{ mL}}{1 \text{ L}} =$$

39.42 mL

19.71

39.42

$\ll 4.20$

4.20

pH > 7

pH $\gg 7$

