$$\frac{\alpha_{H_{5}\rho_{0}}}{\alpha_{H_{5}\rho_{0}}} = \frac{\left[H\eta^{3}\right]}{\left[H\eta^{2} + \left[H\eta^{2}k_{1} + \left[H\eta^{2}k_{1} + k_{1}k_{2}k_{3}\right]\right]} + \frac{100}{27.72 \times 10^{-11}}\right]}{\left[H\eta^{2}k_{1} + \left[H\eta^{2}k_{1} + k_{1}k_{2}k_{3}\right]\right]} = \frac{\left[H\eta^{2}k_{1} + \left[H\eta^{2}k_{1} + k_{1}k_{2}k_{3}\right]\right]}{\left[H\eta^{2}k_{1} + \left[H\eta^{2}k_{1} + k_{1}k_{2}k_{3}\right]\right]}$$

$$^{\alpha}H_{2}\rho_{01} = \frac{[H^{\eta}]^{2}K_{1}}{(H^{\eta})^{2}} = \frac{[H^{\eta}]^{2}K_{1}}{(H^{\eta})^{2}$$

$$0.01$$
 0.015 - 5×10^{3} 0.01

$$PH = 12 + ly \frac{5x10^{3}}{5x0^{2}} = 12 \qquad \frac{[OH]}{10^{3}x5} = 2 > 0.01$$

$$Cold = 12 + ly \frac{5x10^{3}}{5x0^{2}} = 12 \qquad \frac{[OH]}{10^{3}x5} = 2 > 0.01$$

2.)
$$H_{2}P_{04} + OH \longrightarrow H_{2}P_{04} + H_{2}O$$

- 0.02 0.01

 $H_{2}P_{04} + OH \longrightarrow HP_{04}^{7} + H_{2}O$

0.01 0.01

 $H_{2}P_{04} + OH \longrightarrow P_{04}^{7} + H_{2}O$

0.01 0.01

- 0.01

0.01

$$PM = Pta + ly \frac{LoAcT}{[HoAc]} = \frac{[OAcT]}{[HoAc]} = 0.575 = \frac{0.3 \times VoAc}{2.5} \rightarrow \frac{VoAc}{VHoAc} \Rightarrow \frac{VoAc}{VHoAc} = 0.384$$

$$VHOAc + VOAc^{-} = 2.5L$$

$$K_{N} = \frac{[H(\omega)][pr]}{[H(coorl)]} = \frac{[C'(N)]^{2}}{[C'(N)]} \longrightarrow C'(N) = \frac{C'(N)}{N} =$$

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(5)

$$C_{0H} + 5 \frac{50 \times 0.05}{50 \times 15} = \frac{1}{26} \text{ M}$$

$$C_{0H} + \frac{15 \times 0.1}{65} + \frac{3}{130} \text{ M}$$

$$C_{\text{OM}} = \frac{5000.05}{74.9} = 0.0334 \text{ M}$$

$$C_{\text{OM}} = \frac{24.9\times0.1}{74.9} = 0.0332 \text{ M}$$