ruge sept. 2000 addition electrophyle a) pages 2 et 3 b) page 42 c) page 41 et 42 2) l'onz dation des alcools a) page 55 m=v.g=) b) 50 cm3 CH3 CH0 (=> 50 cm3 x 0,78 g/cm3 = 39g 2 = 1 = (=) 399 = 0,886 mol CH3 CHO n Her (=) 0,886 mol CH3 CH2OH à 100% de rendement dr. = min a 62% : 0886 × 100 = 1,43 mol CH3 CM2 OH 11=m.H= (=) 1,43 mol x 46 g/mol = 65,76 g l'hand 1) c/ x) DNPH B) reachif de Schiff 3) les acides amines a) glycine: non chiral: pas de Casymétrique alanine: Chinal: 1 C asyme trique  $\delta$ ) 5 NH2 > COOH > OH3 > 14 conformation de calée

in give a

$$f) \text{ est cen de } H(l: 0.015.05 - 0.010.062) = 1,21.10 \text{ mod } (l)$$

$$[H_30^+] = \frac{1,25.10^{-3}}{0.010 + 0.015} = 5.10^{-2} \text{ mol/e} \frac{m_{\text{Hoe}} \text{ escale}}{(V_{\text{unime}} + V_{\text{Hoe}})}$$

$$pH = -\log 5.10^{-2} = 1,30$$

a) 
$$CH_3 COOM + H_2O = CH_3 COO^- + H_3O^+$$
 $K_a = \frac{[H_3O^+][CH_3 COO^-]}{[CH_3 COO^+]} = [H_3O^+] = K_a \frac{[CH_3 COO^+]}{[CH_3 COO^-]} = [H_3O^+] = K_a \frac{[CH_3 COO^-]}{[CH_3 COO^+]} = K_a + loy \frac{[CH_3 COO^-]}{[CH_3 COOH]} \approx pK_a + loy \frac{[COM_3 COO^+]}{[CM_3 COOM]} = \frac{COM_3 COOM}{[CM_3 COOM]} = \frac{COM_$ 

b) 
$$15g \text{ NaOH} \iff 15g \text{ NaOH} \iff 5\sqrt{\frac{15g}{40g/mol}} = 0.375 \text{ mol}$$
  
 $43c00H + NhCH \rightarrow 0.45c00 + Nat + HeO}{40g/mol} \implies 0.375 \text{ mol CH}_3 COO - forme = 1.0,375 = 0.625 mol}$   
 $43c00H = Mirror + Mirr$ 

c) 
$$[H_30^+]_{=10^{-4.53}}^{=10^{-9.53}} = 2.95 \cdot 10^{-5} \text{ mol/e}$$

$$\frac{[HInd]}{[Ind]} = \frac{2,95.10^{-5}}{2.10^{-5}} = 1,48$$