\* con - anod (multimetra)

$$E^{\circ}$$
 = potential cortod Cult - potential and 2u<sup>2t</sup> = 0,34 - (-0,76) = 1,1 V =  $E^{\circ}$ =1,1 V

$$a = c \cdot f$$
 :  $a_{cu2+} = 1 * 0,043 = 0,043 M$  (C=1M)  
 $a_{2u2+} = 1 * 0,043 = 0,043 M$  (C=1M)

Excole = 
$$151 + \frac{0.059}{2}$$
,  $\frac{0.043}{0.043} = 1.100N$   
Excole =  $1.1 + 0.0295$ .  $\frac{0.043}{0.031} = 1.403V$   
 $\frac{0.043}{0.031} = 0.043M$ ,  $\frac{0.043}{0.031} = 0.0315$  M  
 $\frac{0.044}{0.043} = 0.043M$ ,  $\frac{0.043}{0.031} = 0.0315$  M

$$Q_{2}V^{2} + = 0.1 \times 0.150 = 0.0150 \text{ M}$$

$$E_3 \text{ cale} = 1_{51} + 0,0295$$
.  $lg \frac{0,043}{0,015} = 1,113V$   
 $2_{24}^{24} = 0,05 * 0,202 = 0,010 \text{ M}$ 

$$E_4 \text{ cole} = 1.1 + 0.0295 \cdot lg \frac{0.043}{0.010} = 1.1 + 0.0295 \cdot (lu 43 - 1) = 1.1 + 0.0295 \cdot (lu 43$$

 $a_{2}v^{2+} = 0.01 \cdot 0.887 = 0.00314$   $E_{5}cole = 1.1 + 0.0295 \cdot lg \frac{0.043}{0.003} = 1.130 \text{ V}$ 

Intebara:

- 1. Pièle electrice sunt dispositive du care, du procosele electrochimice, enorgia drimica a reactular radox se transforma ou enorgie electrica.
- 2. Piele electrochimice sent alcatuite din două semielemente unite printr-o punte de sore sou diabragma core impiedică amestecarea elictrolitilor, permite bucurea ionilor intre cele două semielemente.
  - 3. La anod are loc reactia de exidere, iar la costad are loc reactia de reducere.
  - 4. Ensuince electromotoone E a unei pile este diforenta dintre potentialele de Metrod ale catodului si anodului  $(E = E_+ E_-)$ . Ane valoone porttiva.