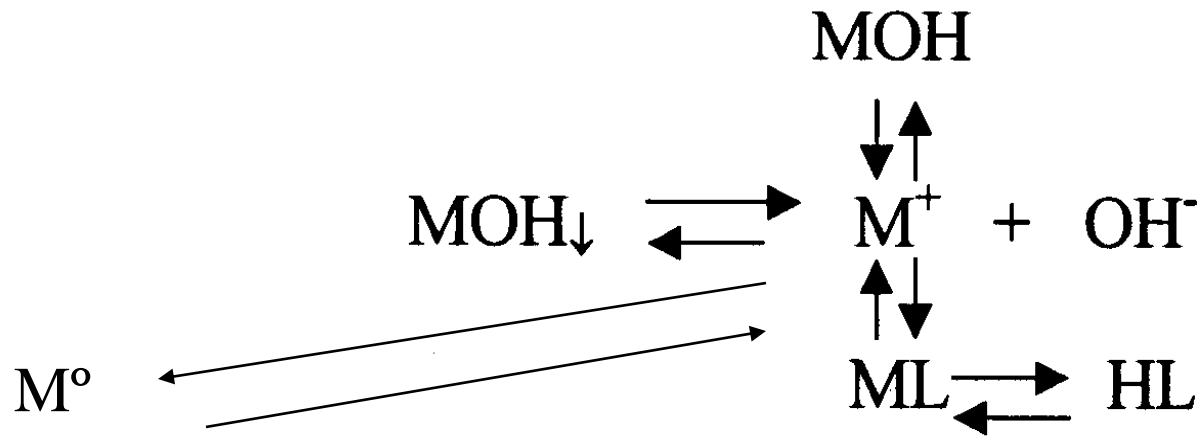


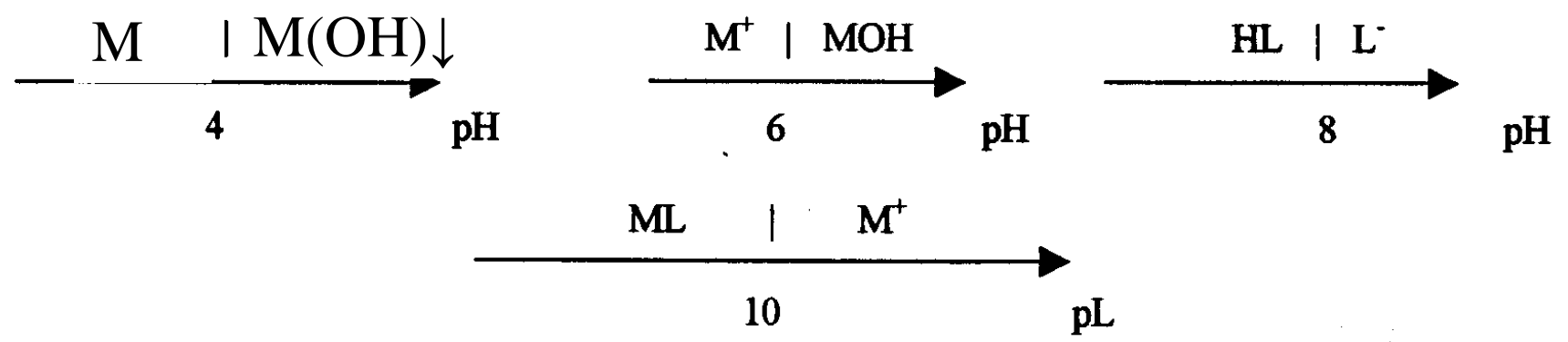
Química Analítica III

Diagramas generalizados de Predominio de Estado: DPE.

Ejemplo hipotético simple:



Los siguientes *DUZP* arrojan la información de predominios para $pM = 2$:



Diagramas Generalizados de Predominio de Estado

$$\log S' = f(\text{pH})$$


$$\text{pL}' = f(\text{pH})_{\text{pM}}$$


$$\text{pe} = f(\text{pH})_{\text{pM}, \text{pL}}$$

Log S

$$\text{Log } S = 2 - \text{pH}$$

$$\text{Log } S = -12 + 8 = -4 = \log S_0$$

pH

Log Co

M

MOH

5

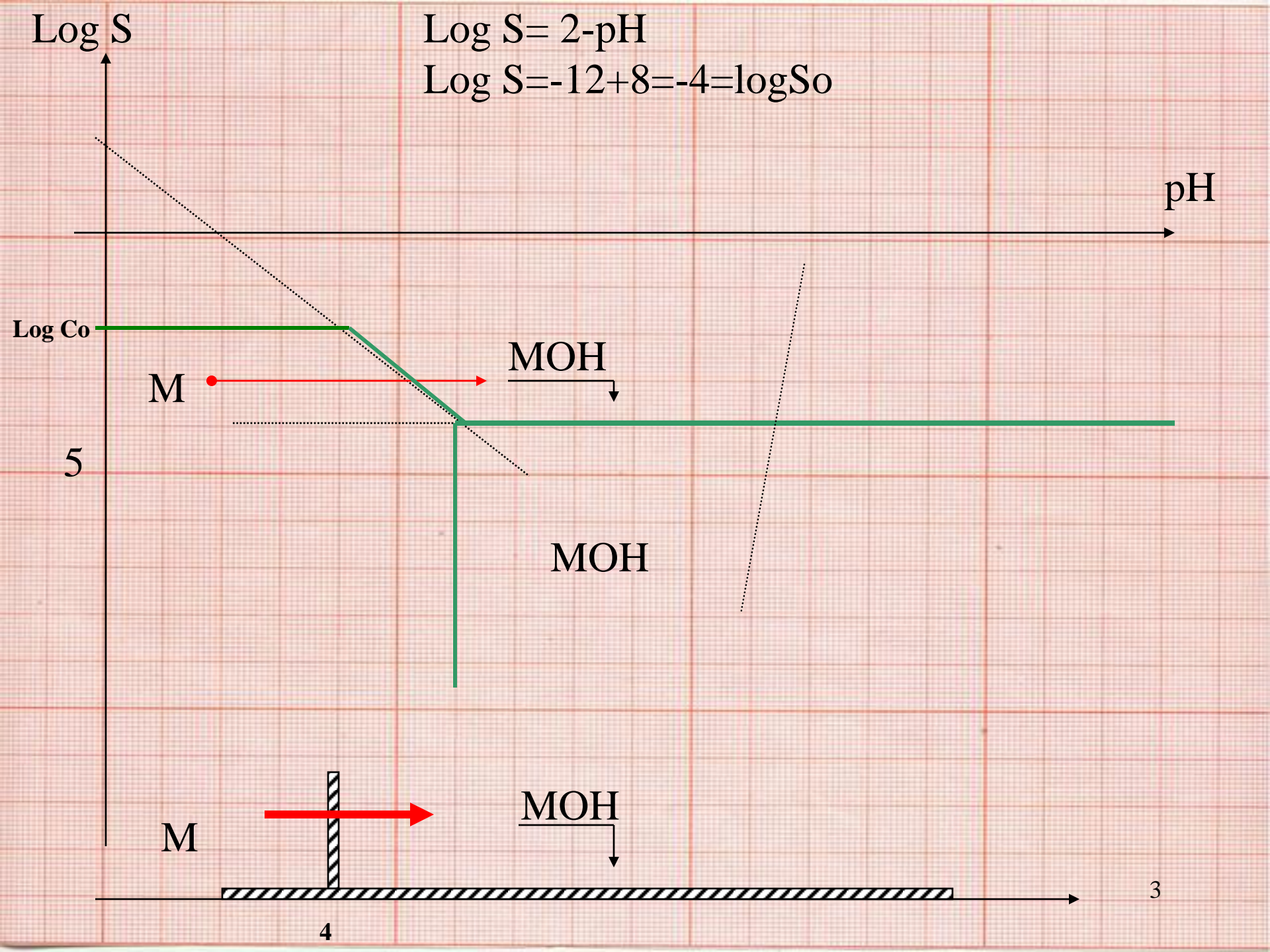
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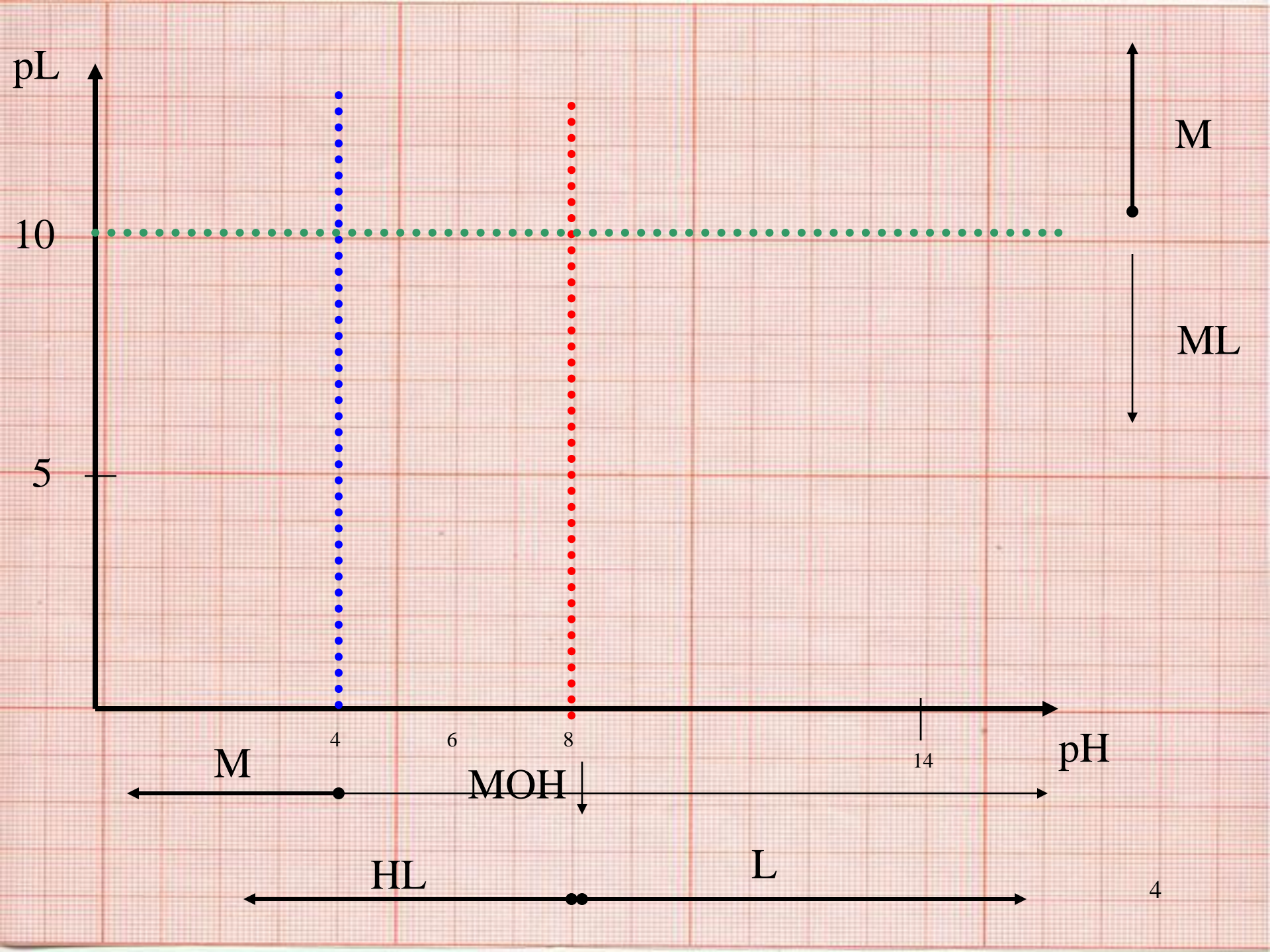
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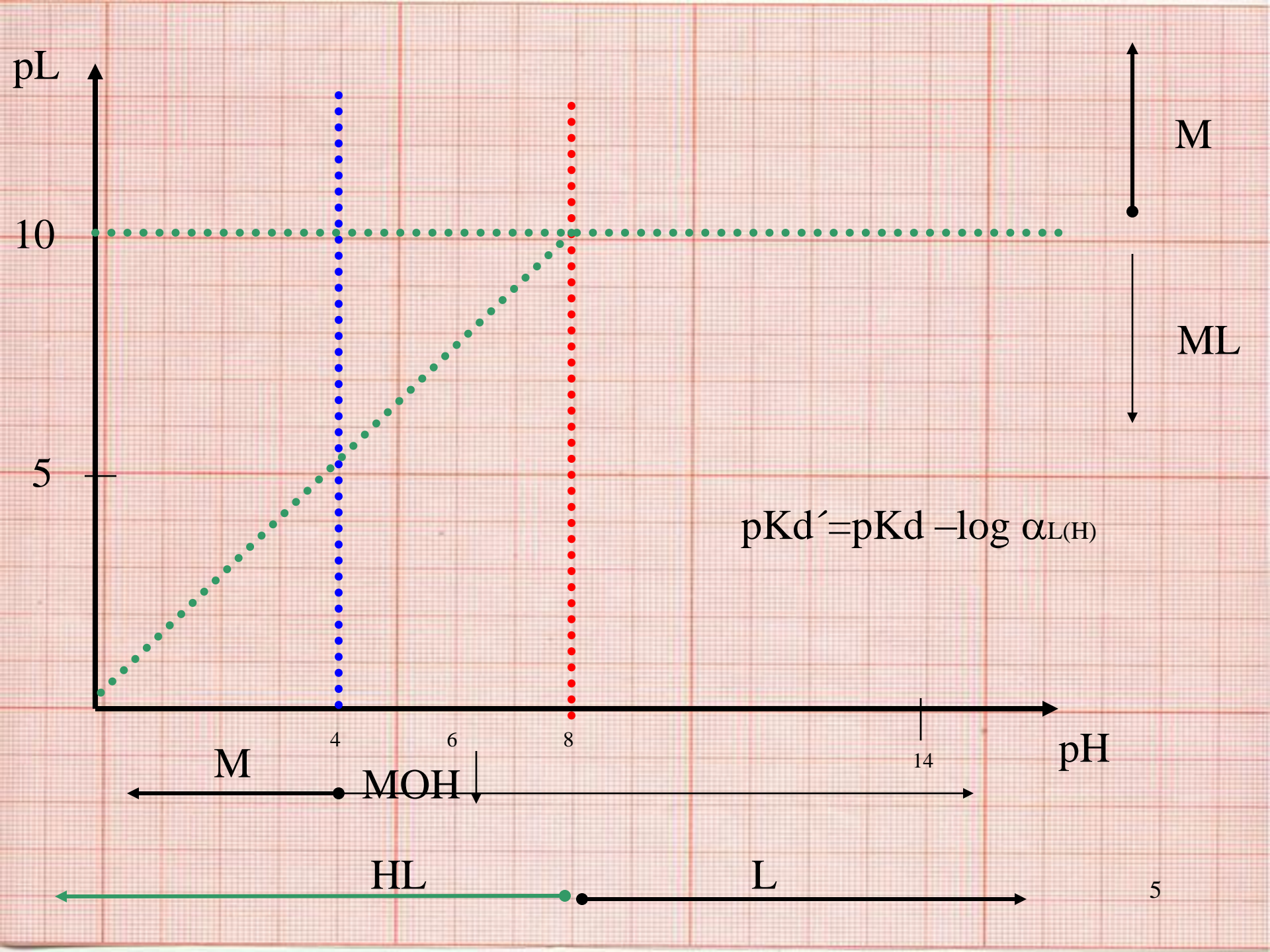
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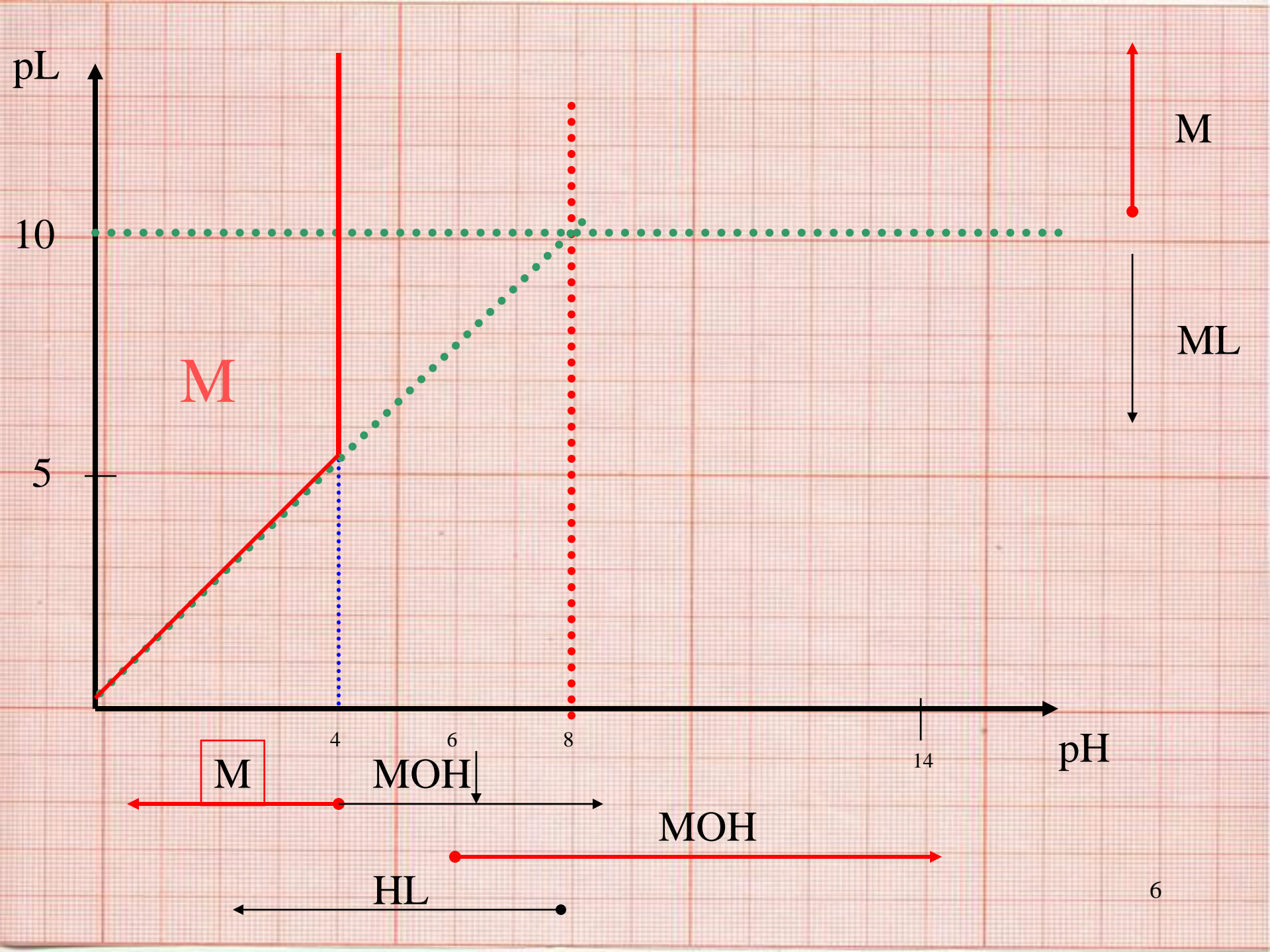
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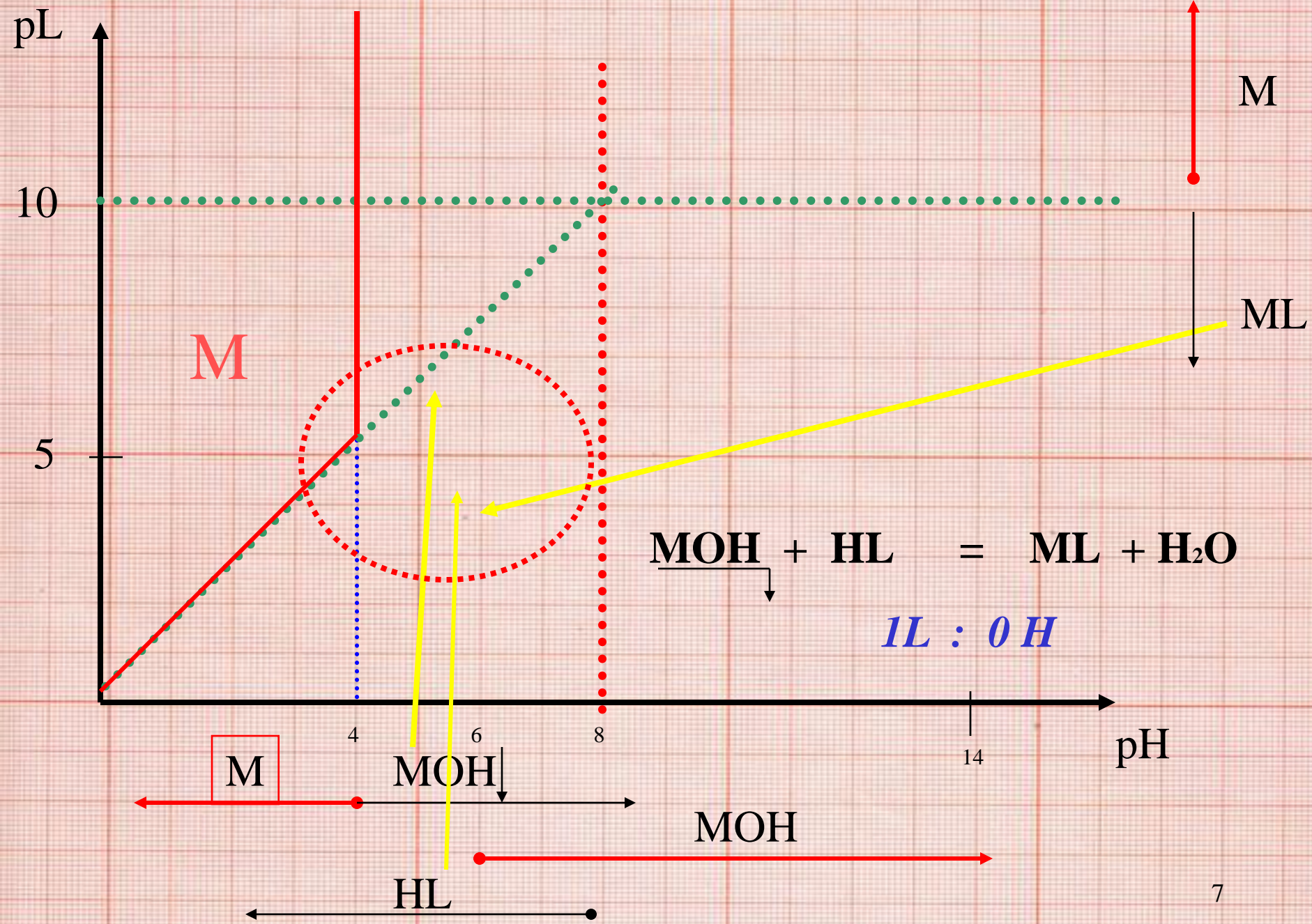
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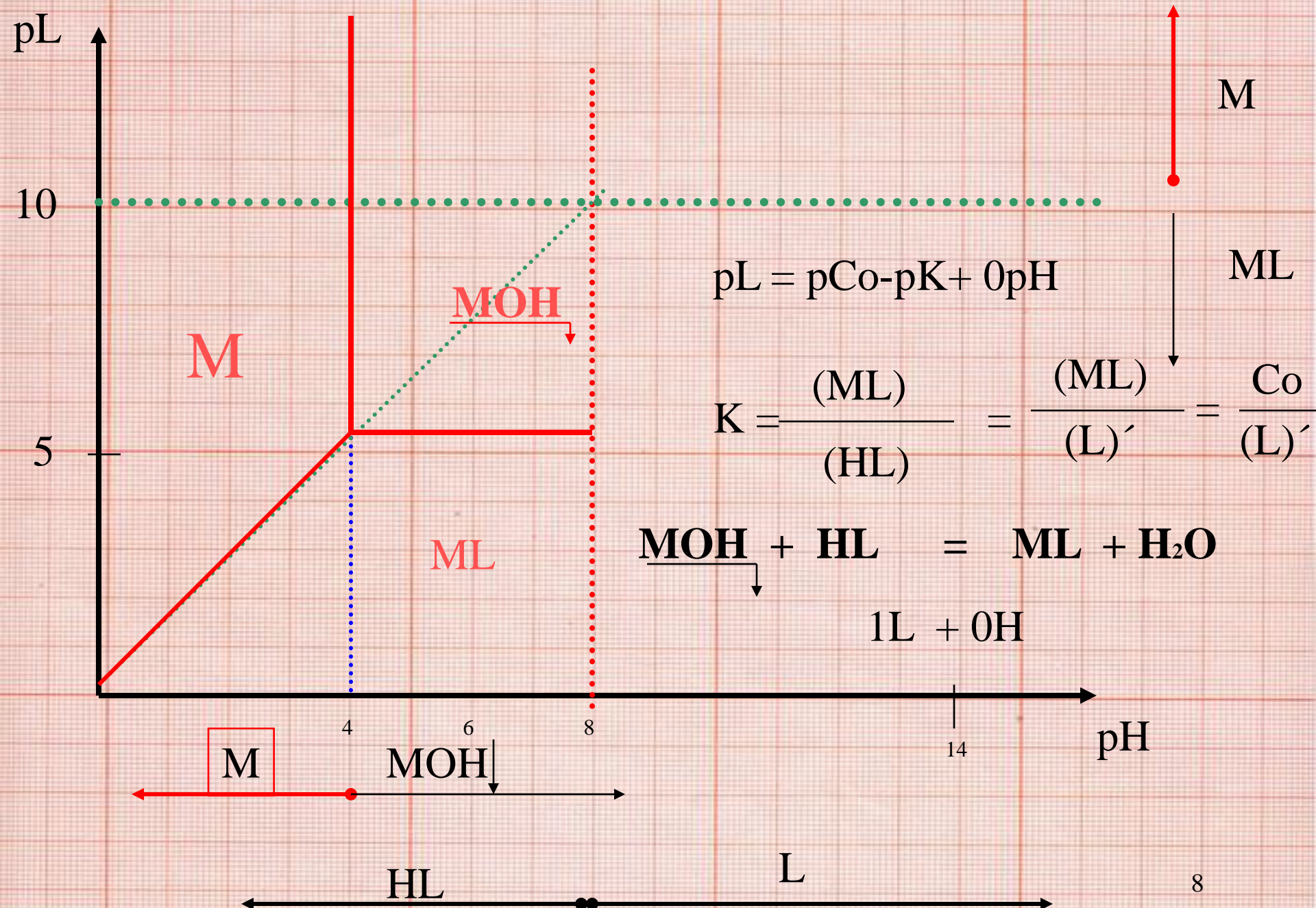


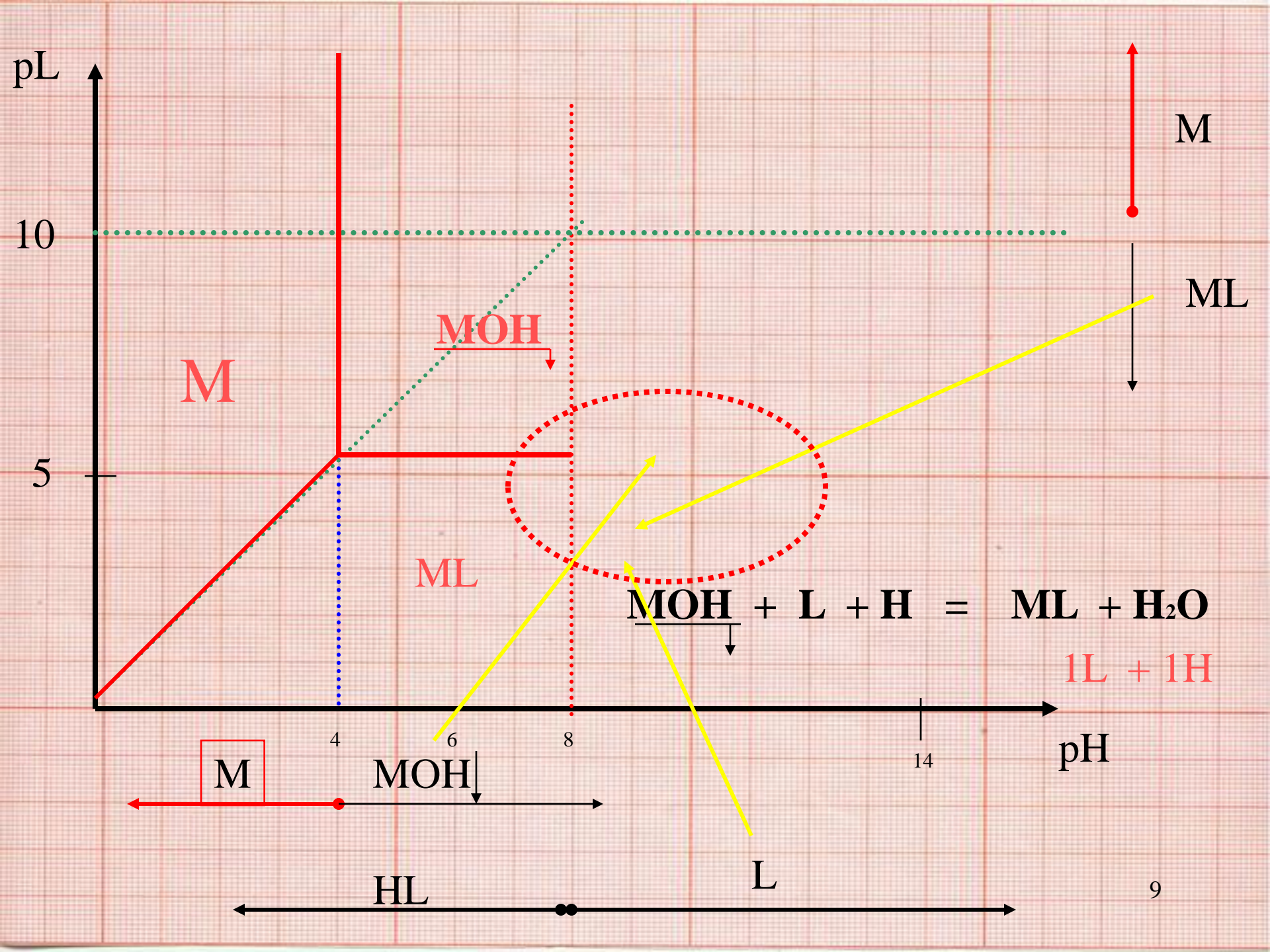


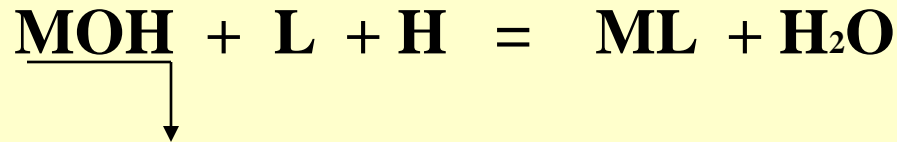












$$K = \frac{(\text{ML})}{(\text{L})(\text{H})} = \frac{C_o}{(\text{L})(\text{H})}$$

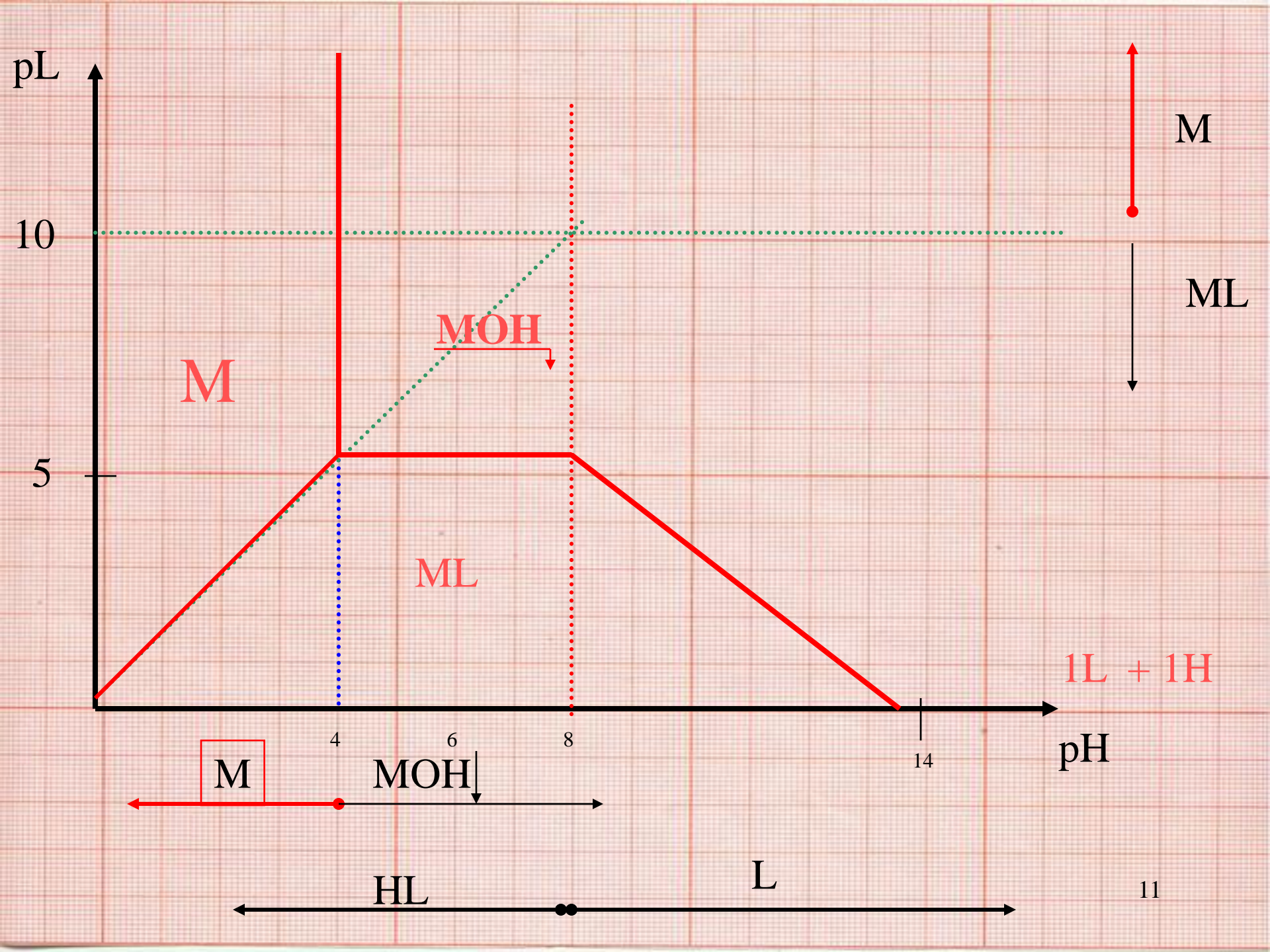
$$(\text{L}) = \frac{C_o}{K (\text{H})}$$

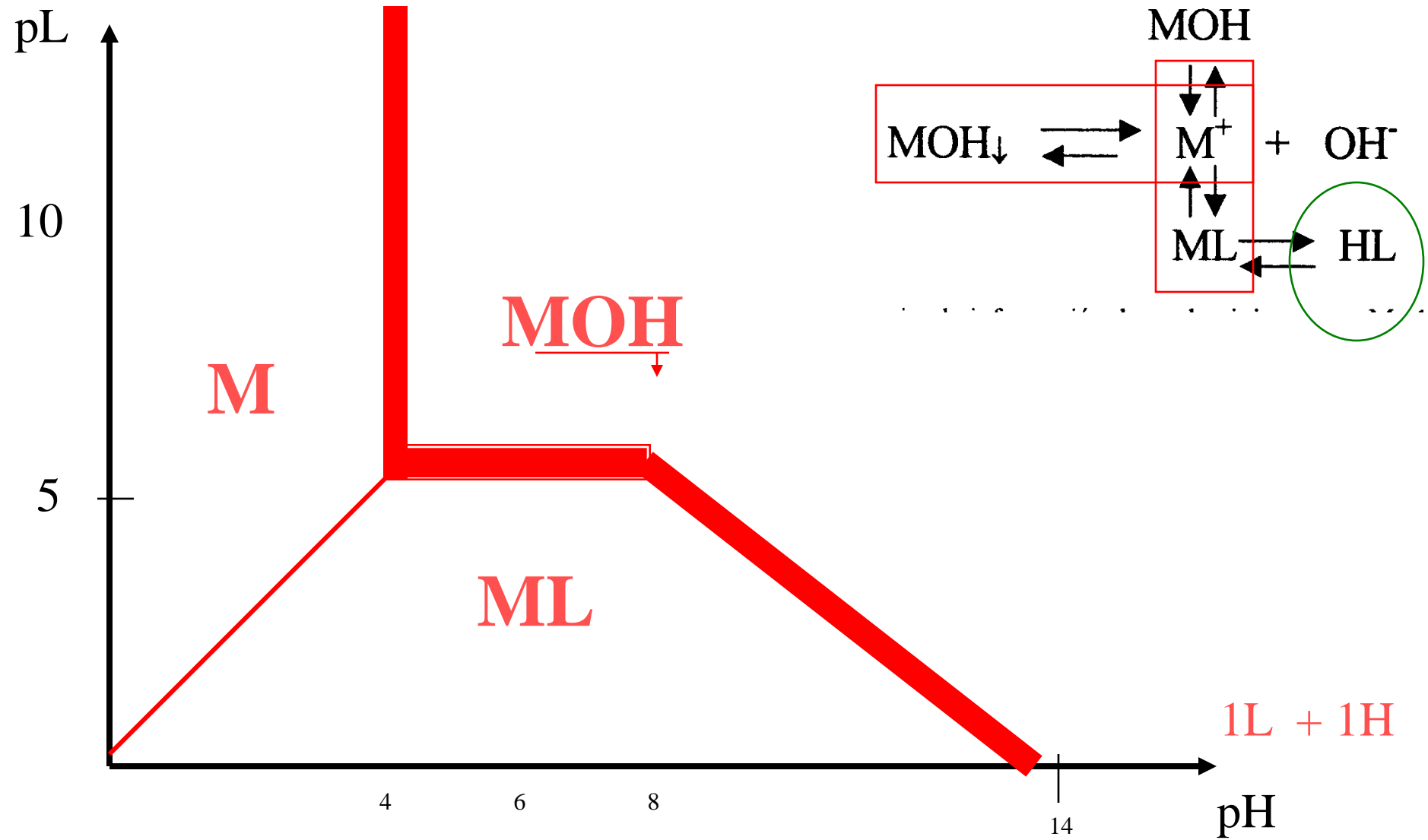
$$\text{Log } (\text{L}) = -\log K + \log C_o - \log (\text{H})$$

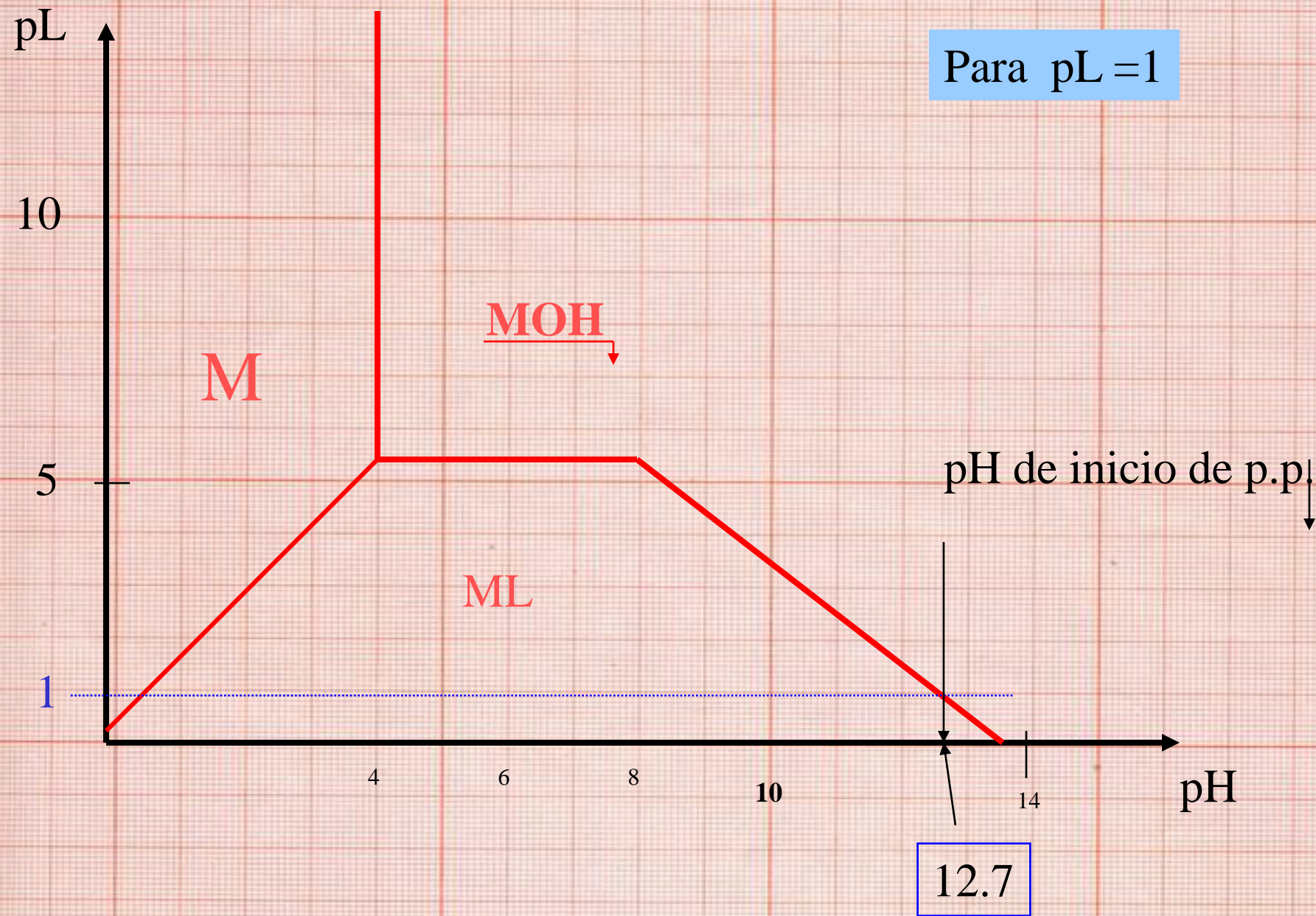
$$-\log(\text{L}) = \log K - \log C_o + \log(\text{H})$$

$$pL = -pK + pC_o - (-\log(\text{H})) = -pK + pC_o - pH$$

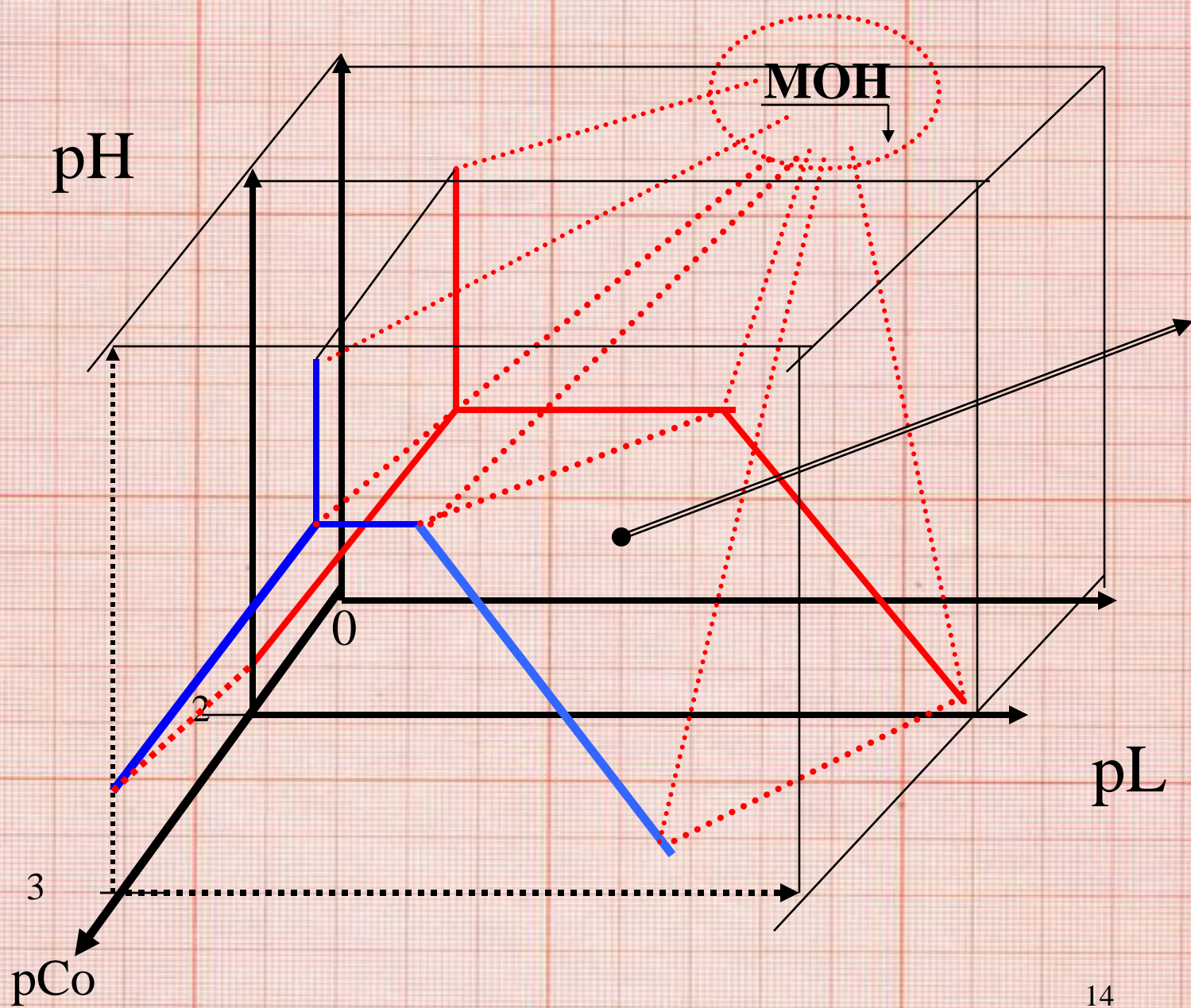
$$pL = f(pH) \quad m = -1$$







(esquema)





UNIVERSIDAD NACIONAL AUTONOMA
DE MEXICO

FACULTAD DE QUIMICA

PROCESOS DE REACCION DEL SISTEMA
Cr(III)/Cr(II) EN MEDIOS DE REACCION ANOXICOS
EN CONDICIONES DE AMORTIGUAMIENTO
MULTIPLE

T E S I S

QUE PARA OBTENER EL TITULO DE:

Q U I M I C O

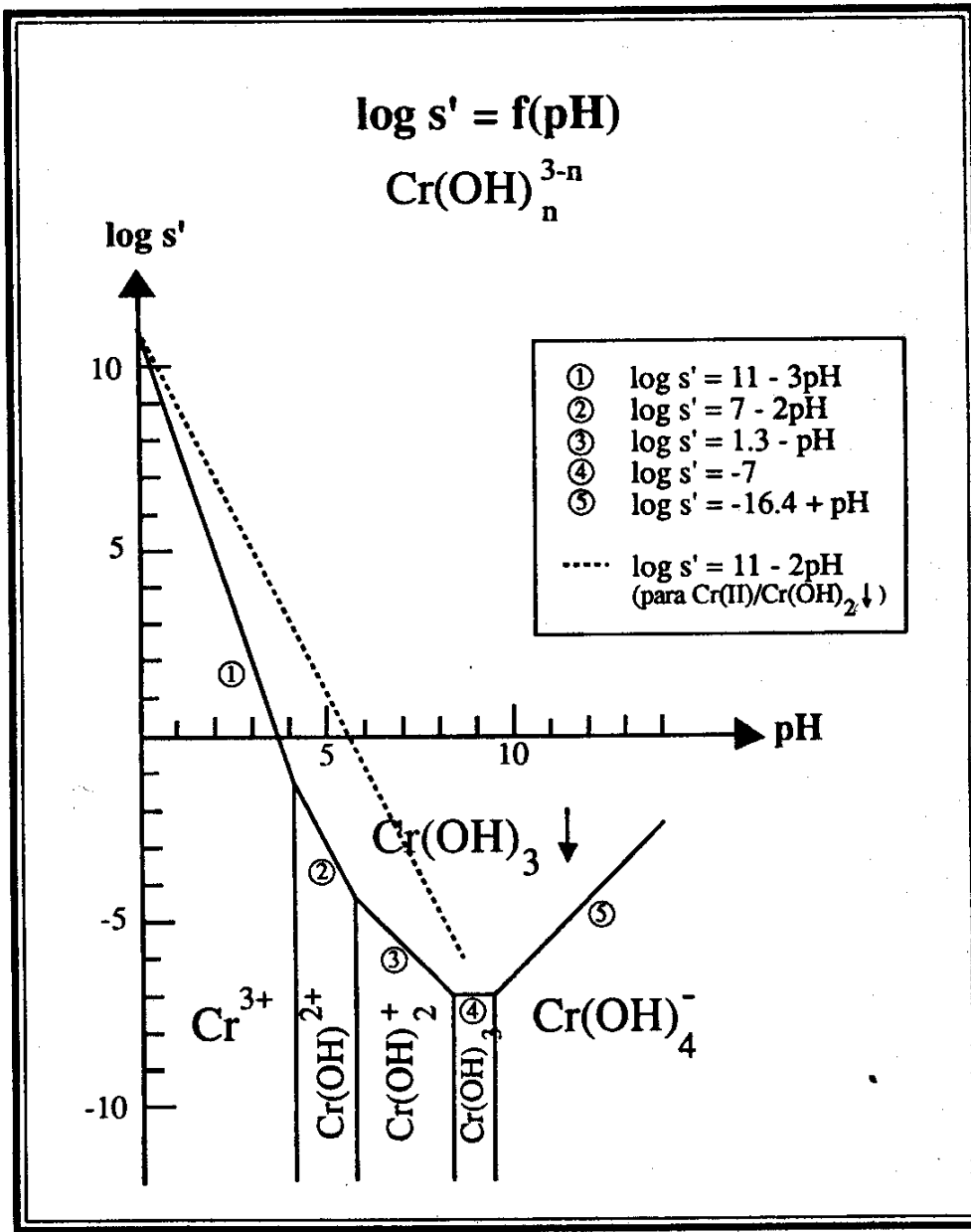
P R E S E N T A :

RAUL NOVOA CASTILLA

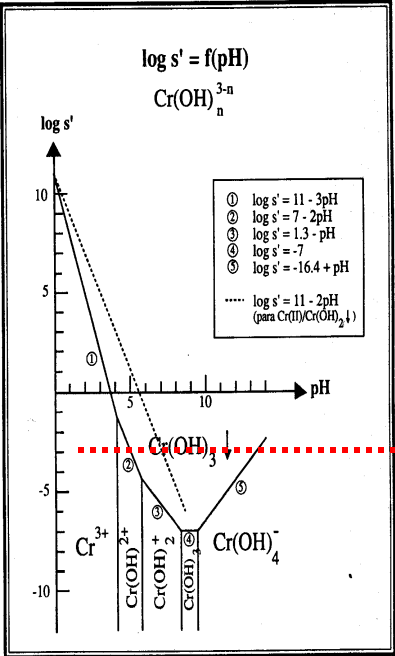


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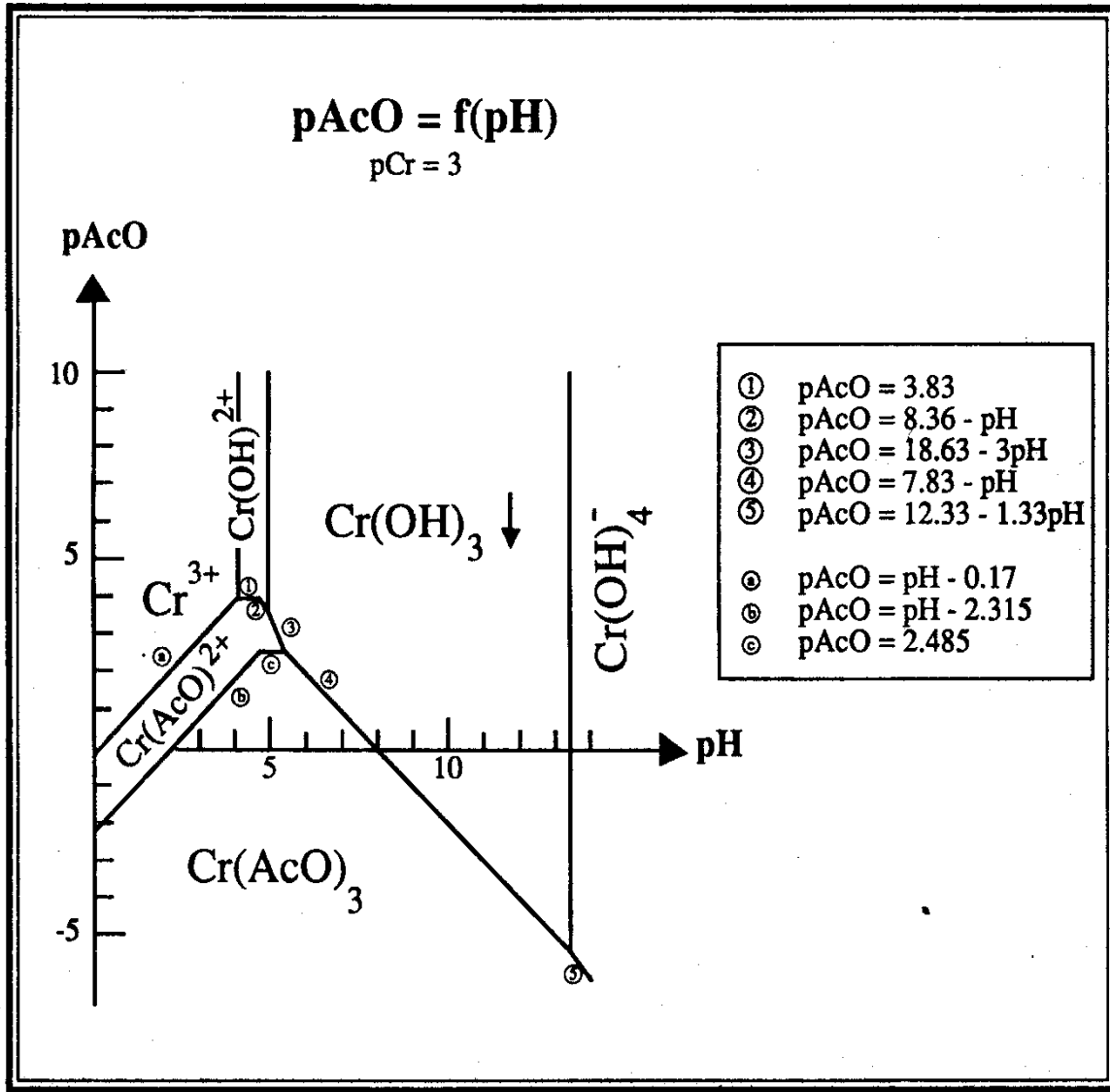
1994



Logaritmo de la solubilidad condicional en función del pH.

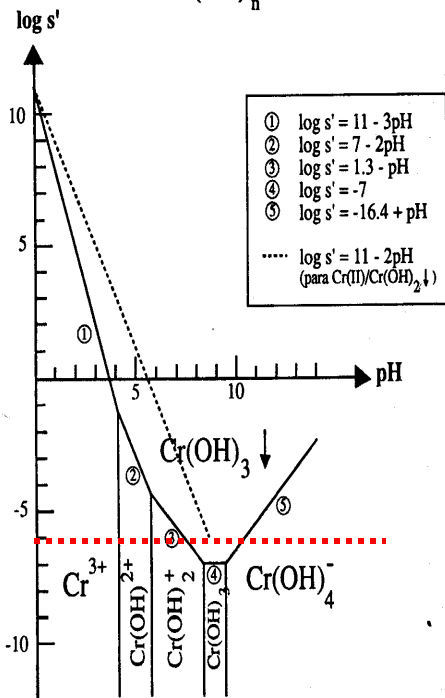
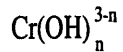


Logaritmo de la solubilidad condicional en función del pH.



-logaritmo de la concentración de acetato en función del pH a concentración fija de Cromo ($\text{pCr}=3$).

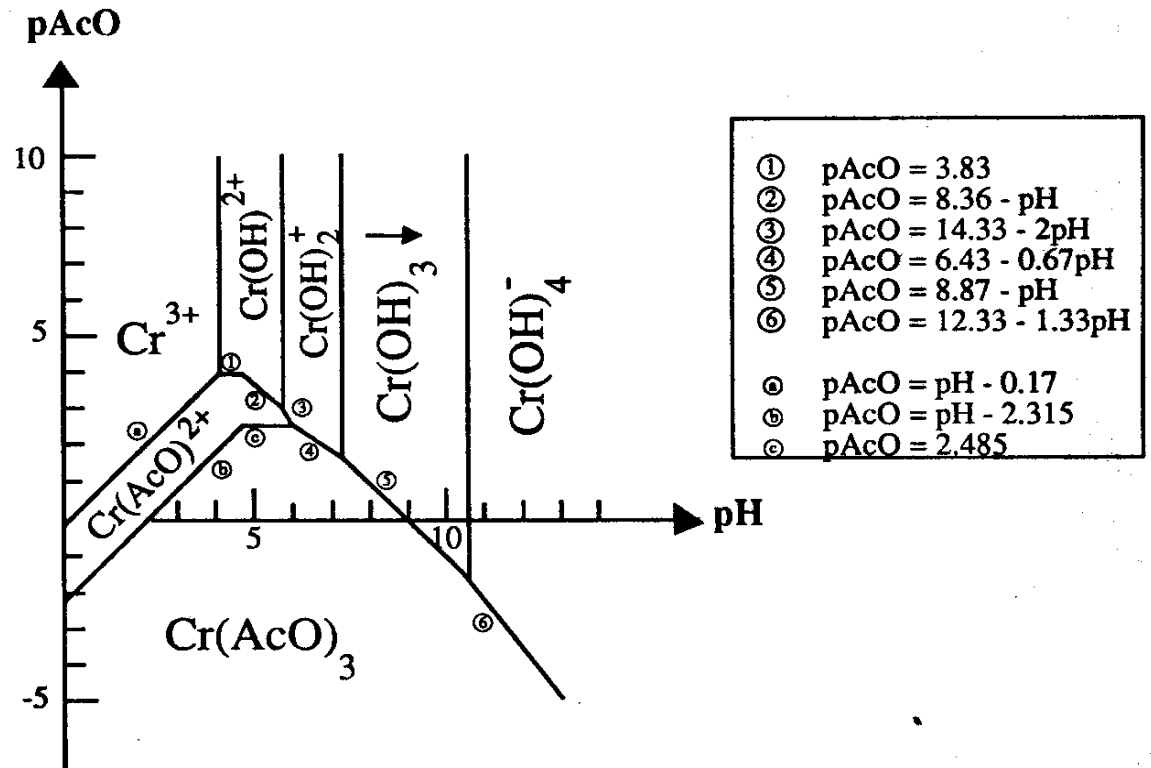
$$\log s' = f(\text{pH})$$



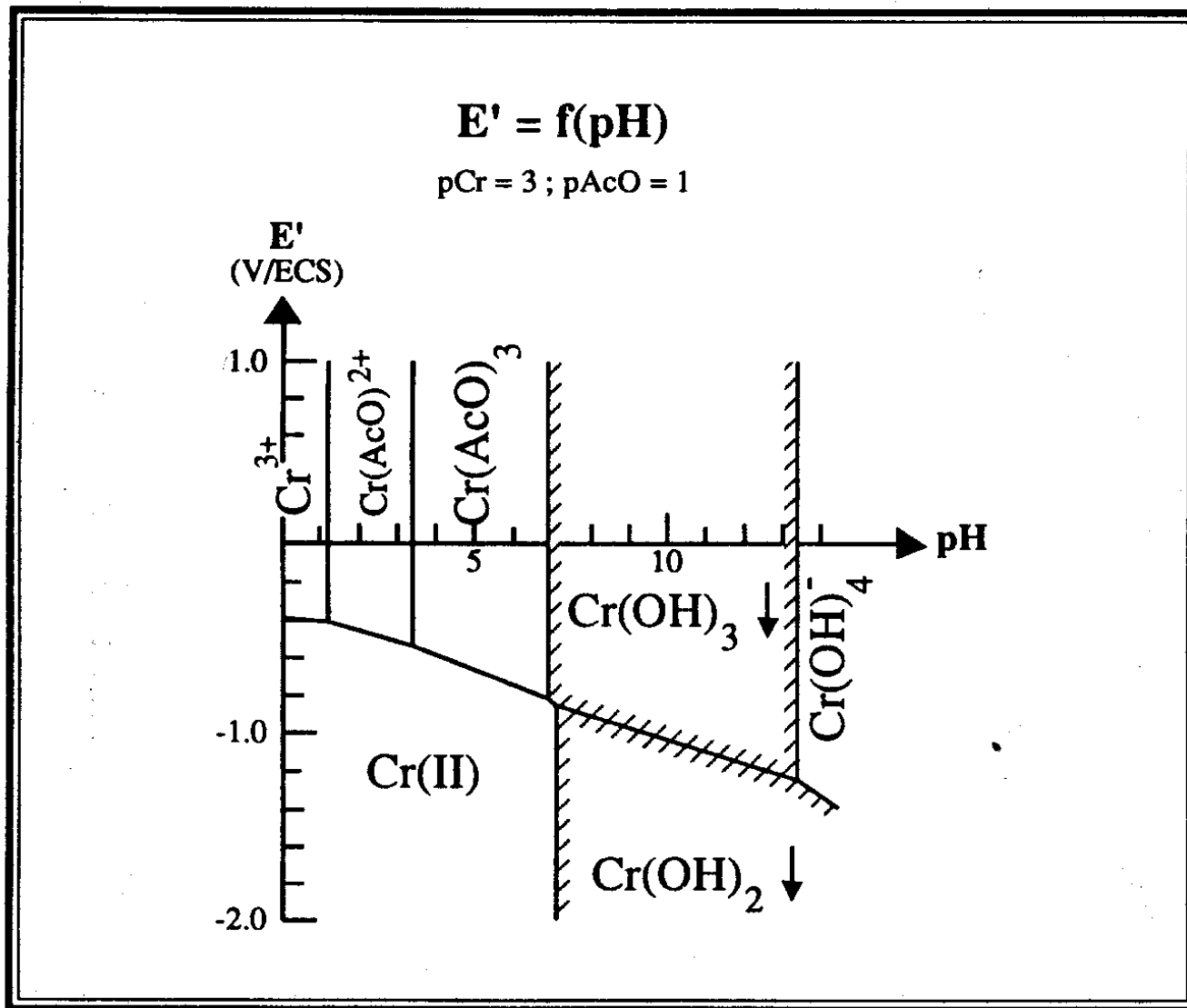
Logaritmo de la solubilidad condicional en función del pH.

$$\text{pAcO} = f(\text{pH})$$

$$\text{pCr} = 6$$



-logaritmo de la concentración de acetato en función del pH a concentración fija de Cromo ($\text{pCr}=6$).



Potencial condicional en función del pH para concentraciones fijas de Cromo ($\text{pCr}=6$) y Acetatos ($\text{PAcO}=1$).