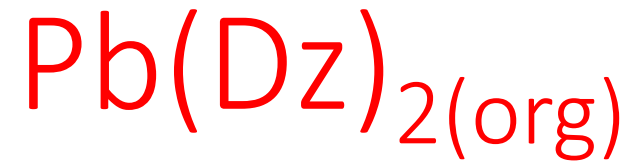


QA III

DLTEE

distribución líquido-líquido



trazo rápido

FQ UNAM

Alejandro Baeza

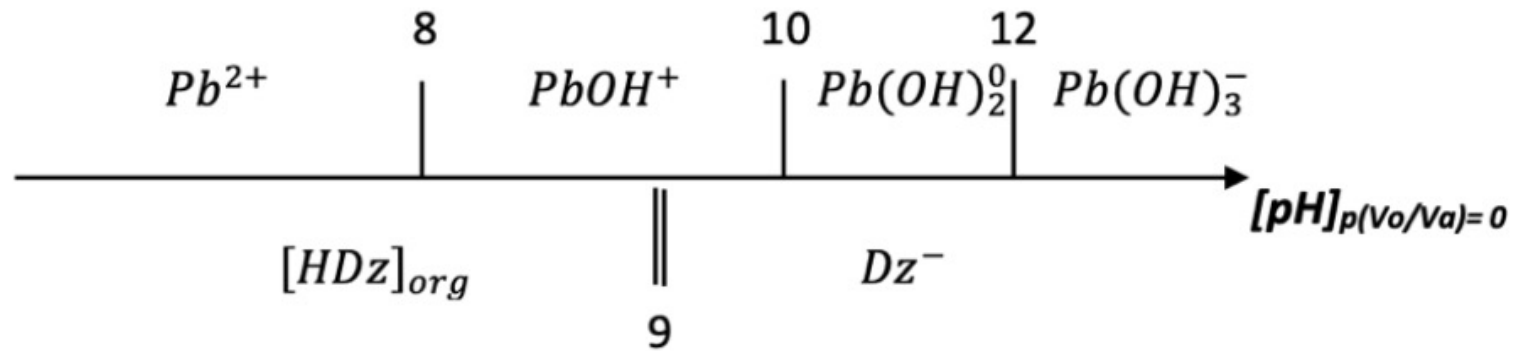
2020-II

$$\log K_{[Pb(Dz)_2]_{org}}^{Dz^-} = 18; \log K_{D(HDZ)} = 4; \log K_H^{HDZ} = 5.$$

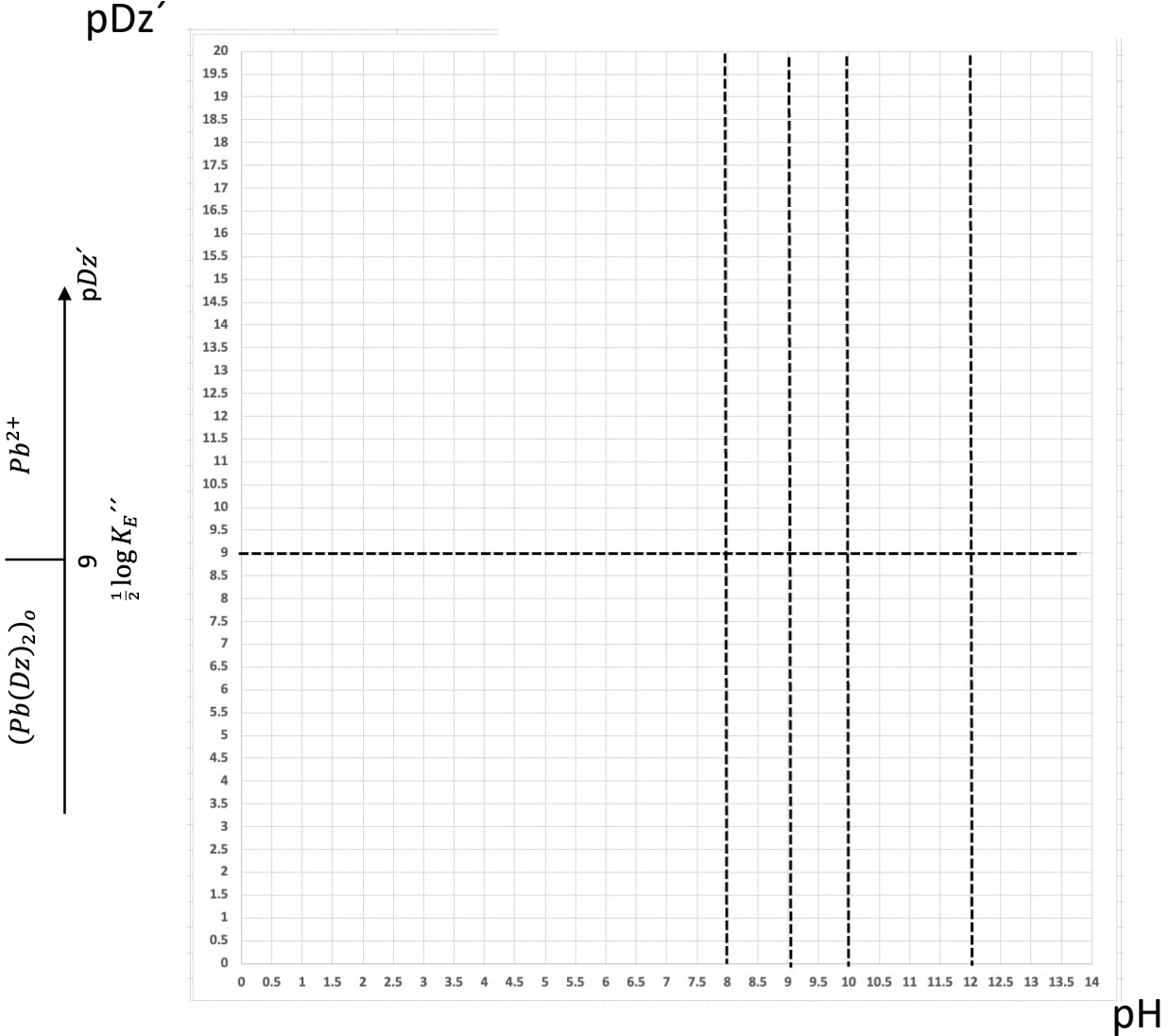
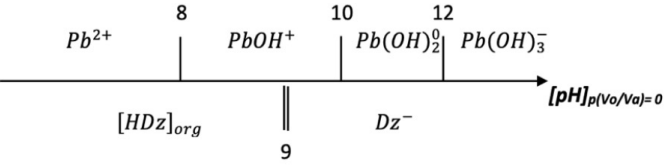
$Pb(OH)_i^{2-i}$	i	$\log K_{Pb(OH)_i^{2-i}}^{i(OH)}$
	1	6
	2	10
	3	13

$$i \quad pK_{a_i} = 14 - (\log K_{M(OH)_j}^{jOH} - \log K_{M(OH)_i}^{iOH})$$

1	8
2	10
3	≈ 12

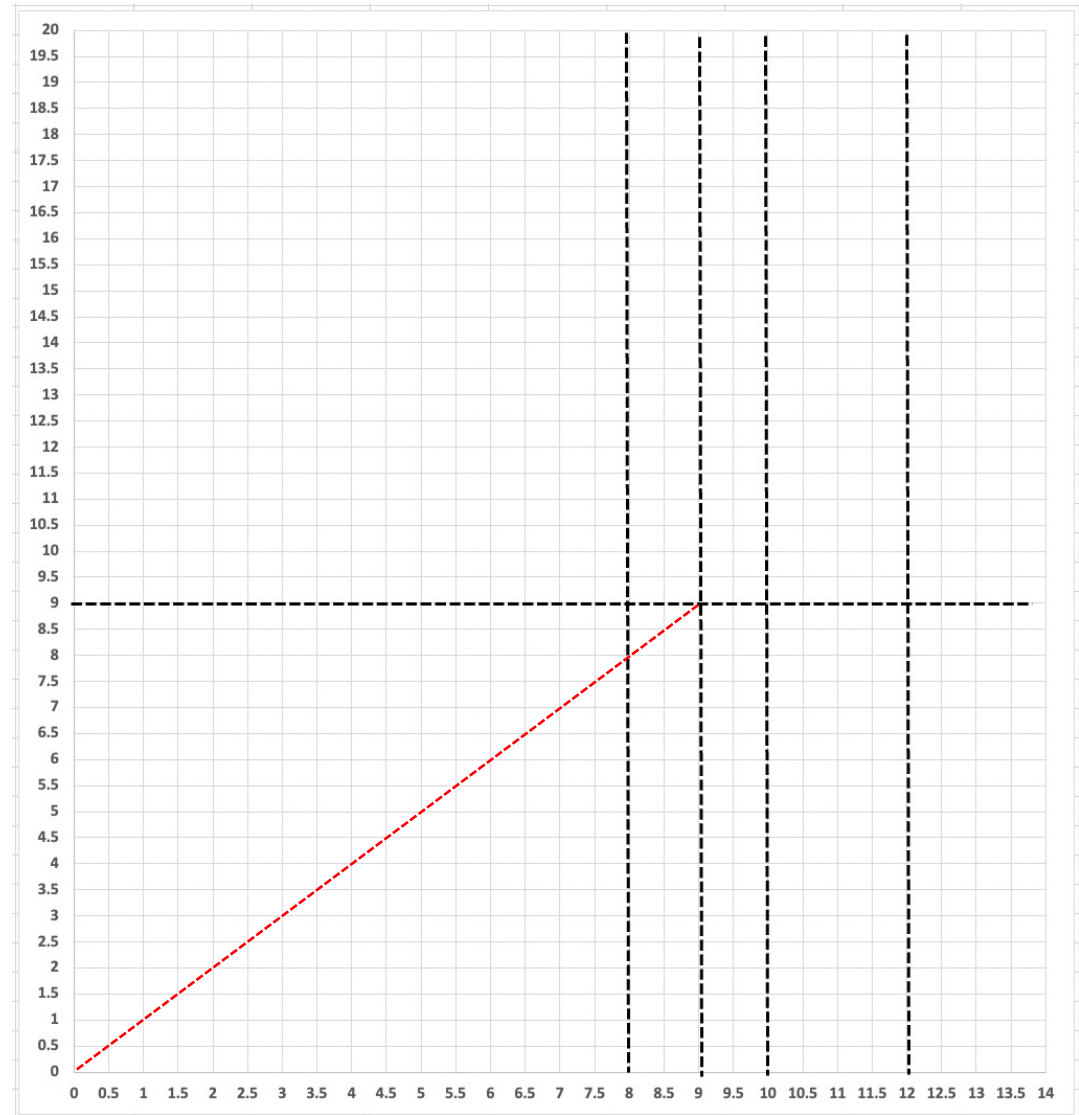


1) Lineas guia transición:



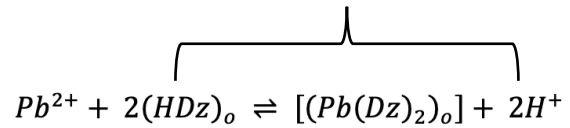
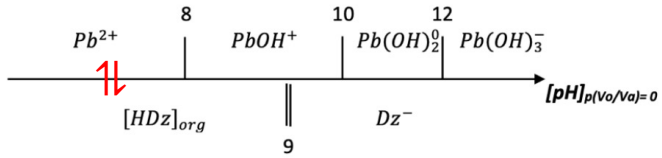
pDz'

2) Linea: $pK_E''' = f(\text{pH})$:



pH

3) Líneas definitivas de:
 Pb^{2+} libre:

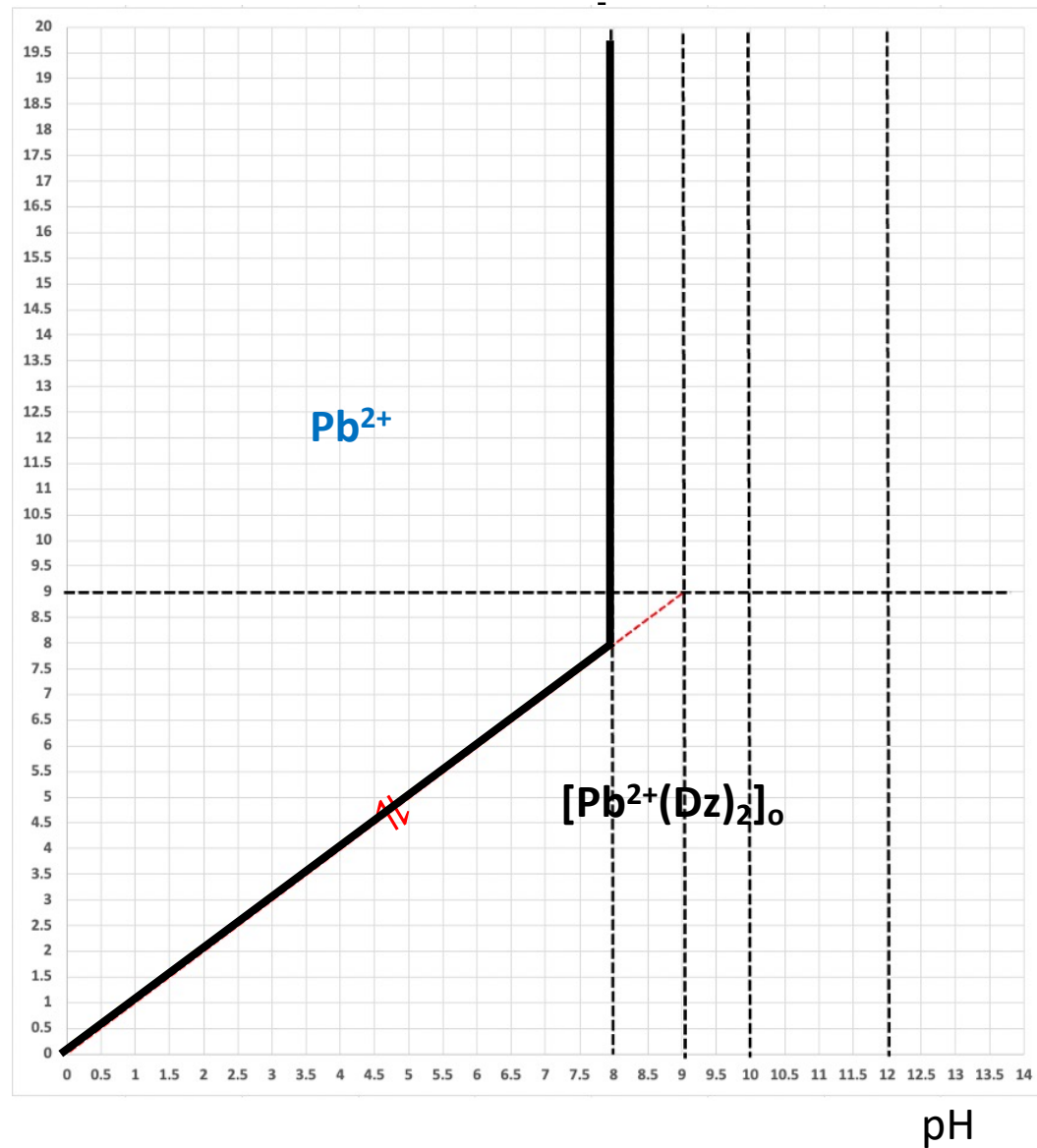


$$K_E'' = \frac{1M \cdot [Pb(Dz)_2]_o [H^+]^2}{[Pb^{2+}] [(HDz)_o]^2 \cdot 1M}$$

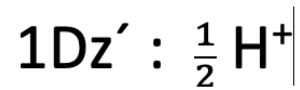
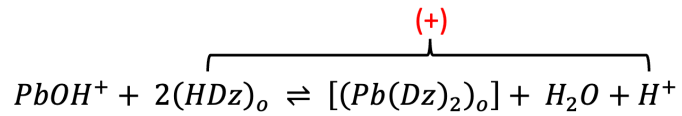
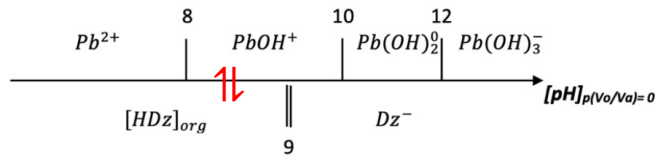
$$K_E'' = \frac{[H^+]^2}{[(HDz)_o]^2}$$

$$[Dz]^{2'} = \frac{[H^+]^2}{K_E''} \quad pDz' = \frac{1}{2} \log K_E'' + 1pH$$

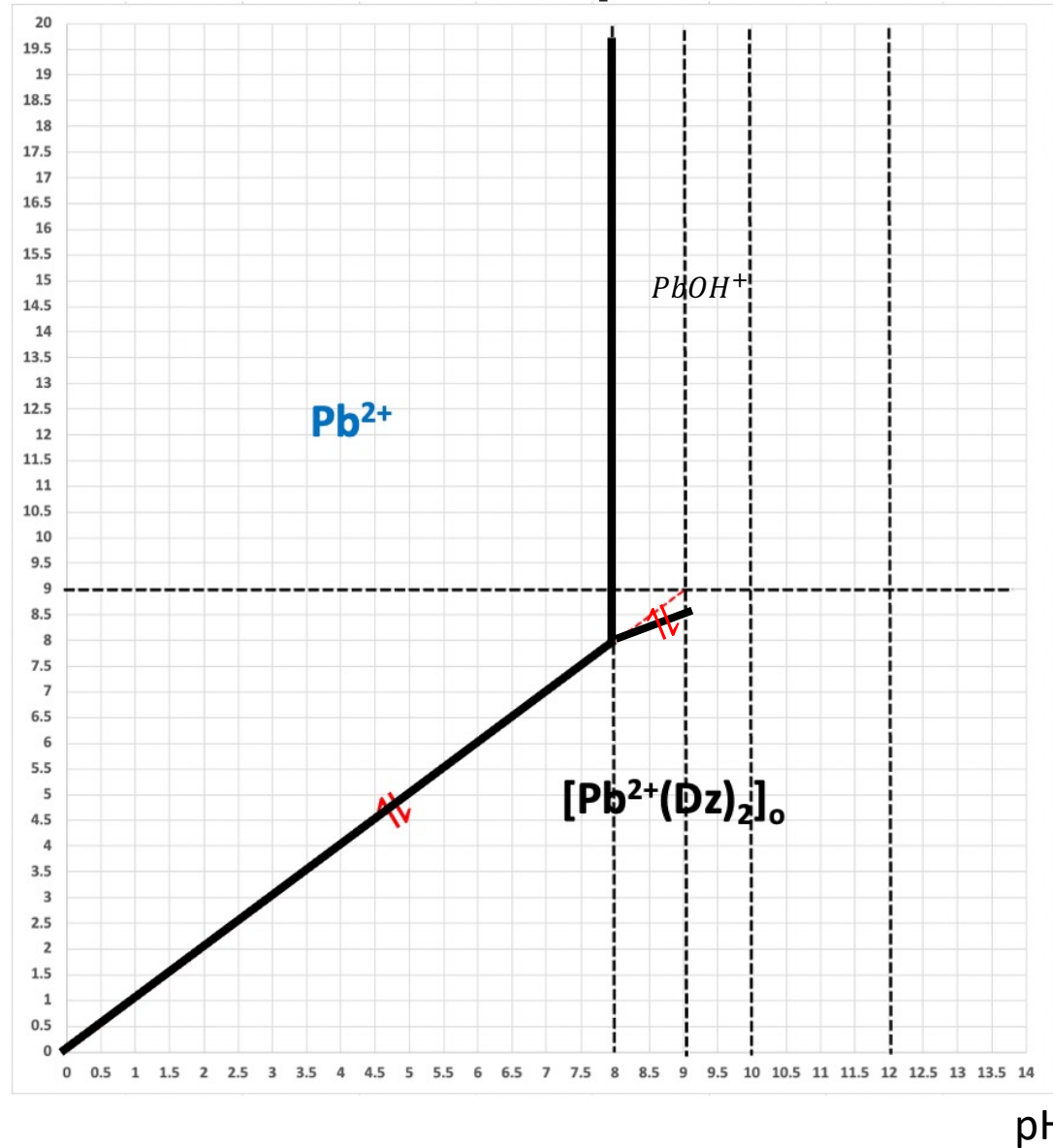
pDz'

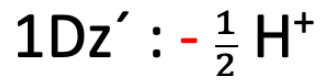
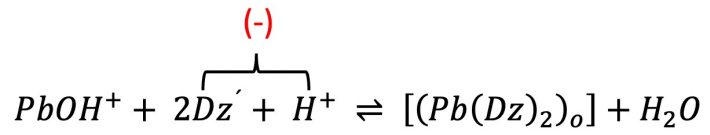
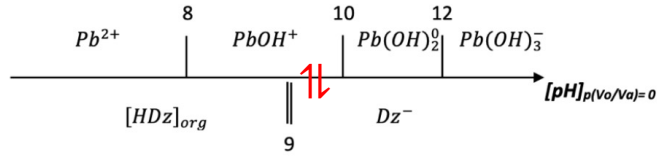


3) Líneas definitivas de:
 $Pb(OH)_n^{2-n}$

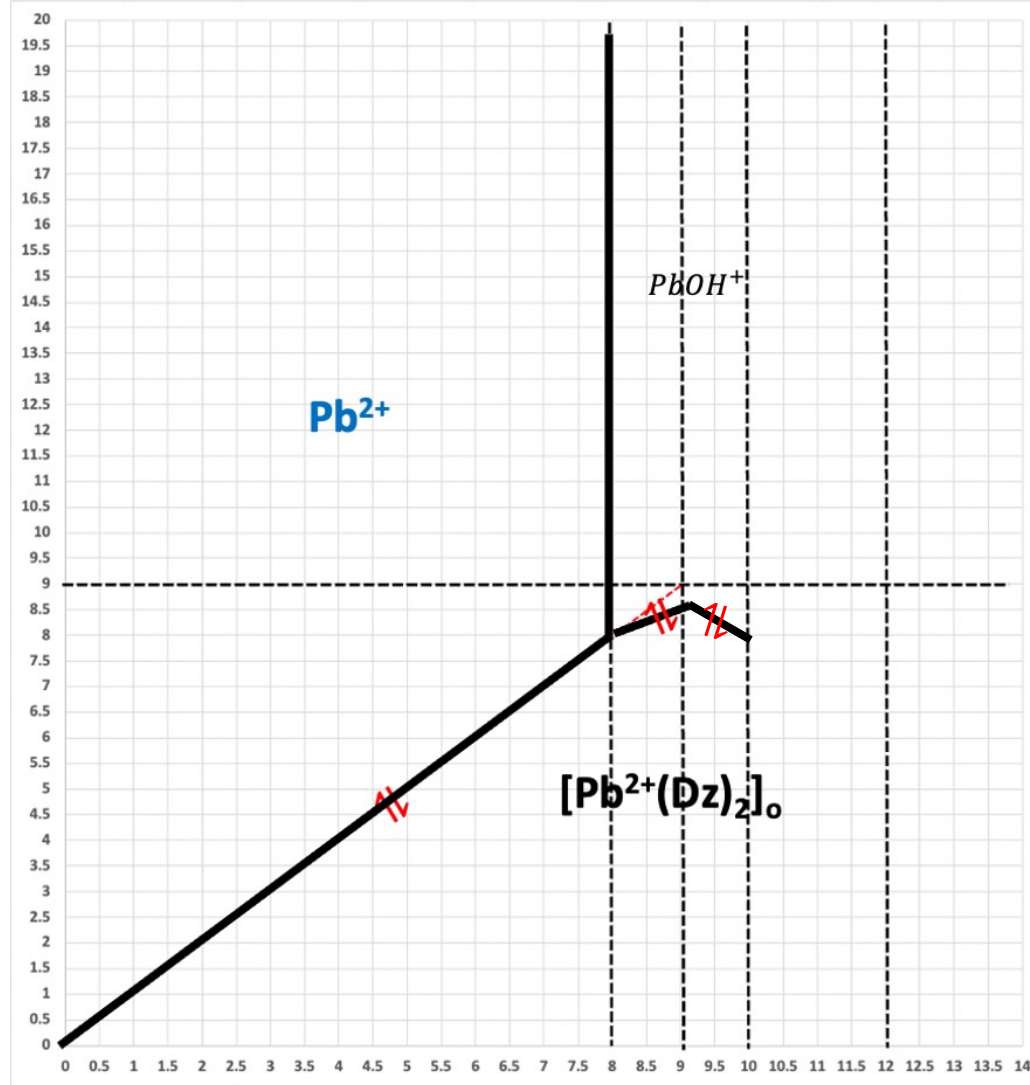


pDz'

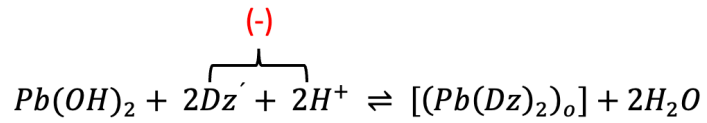
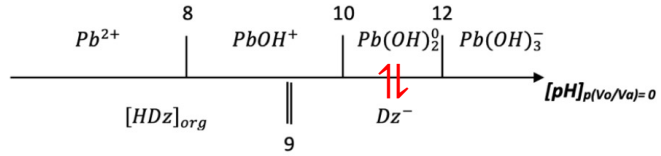




pDz'

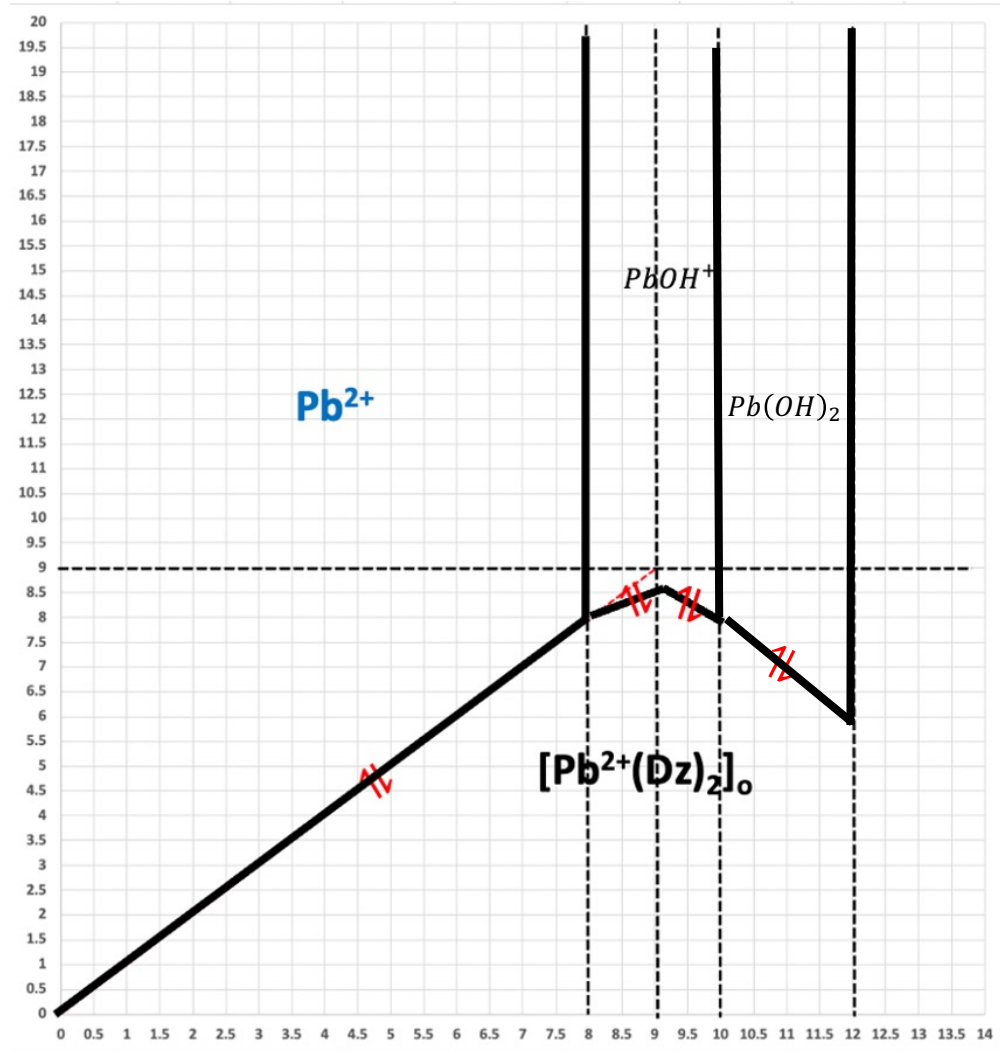


pH

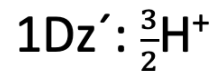
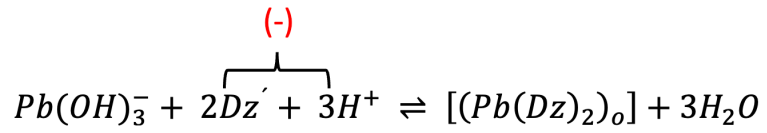
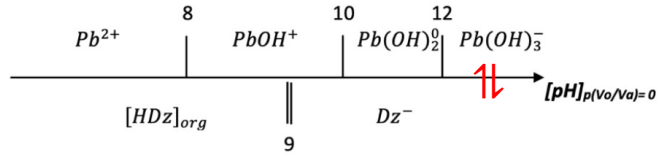


1Dz' : 1H⁺

pDz'



pH



pDz'

