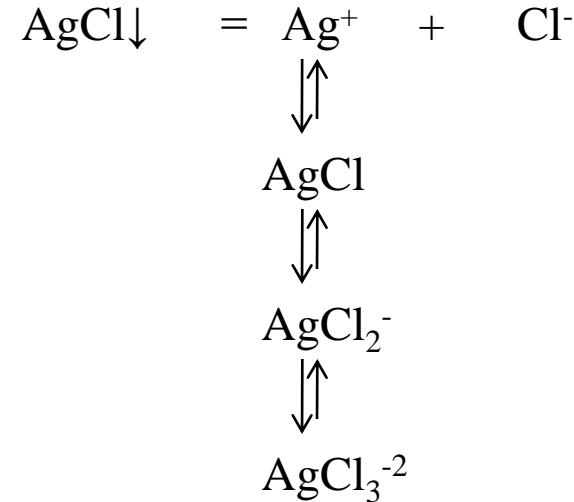


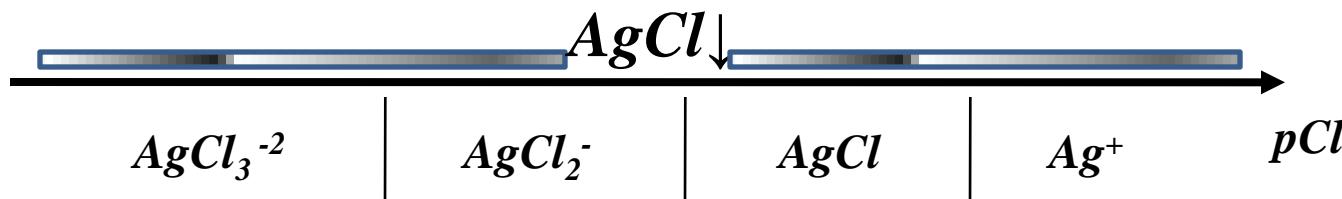
**Diagrama logarítmico de concentraciones
de transición de estado: $\text{AgCl}\downarrow/\text{AgCl}_n^{1-n}$**

$$\text{pKs } \text{AgCl} = 9.6$$

$$\log \beta(n) = (1)3.1; (2)5.1; (3)6.1.$$



DUPE combinado:



$$[\text{Ag}^+]' = S' = [\text{Ag}^+] \left(1 + \sum \beta_i [\text{Cl}^-]^i\right) = [\text{Ag}^+] \left(1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}}\right)$$

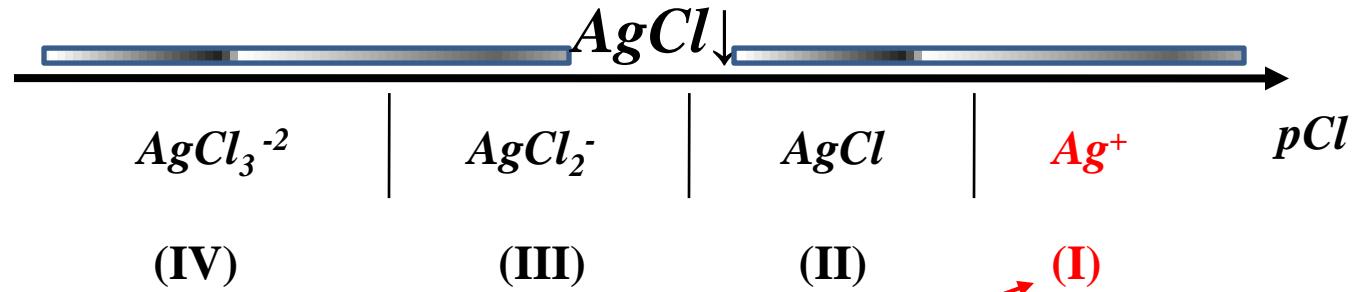
$$K_s = [\text{Ag}^+][\text{Cl}^-];$$

$$[\text{Ag}^+] = 10^{-pK_s+p\text{Cl}} \left(1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}}\right)$$

$$S' = 10^{-pK_s+p\text{Cl}} \left(1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}}\right)$$

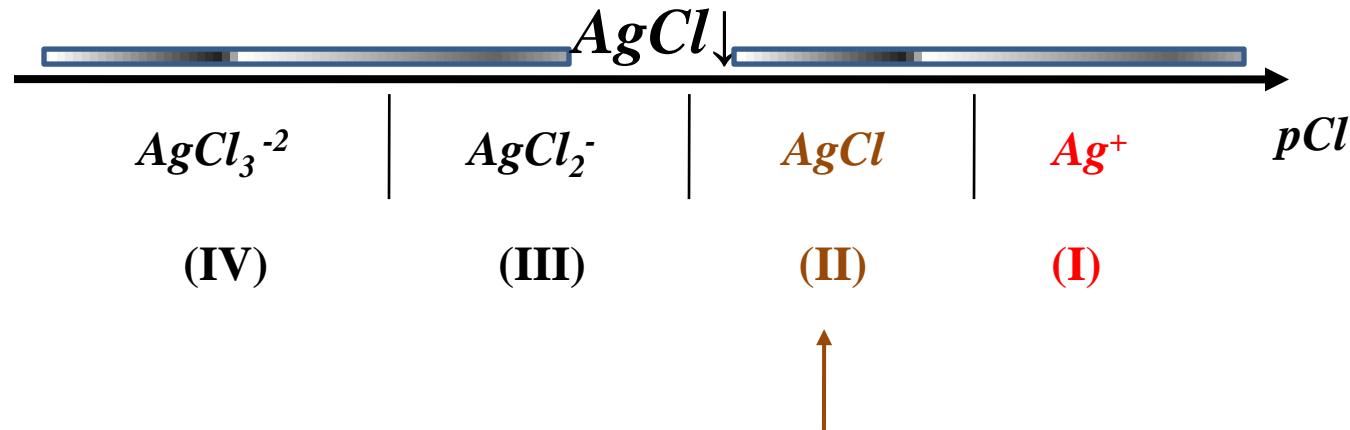
$$\log S' = -pK_s + p\text{Cl} + \log \left(1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}}\right)$$

Reducción del polinomio por sendas zonas de predominio:



$$\log S' = -pK_s + p\text{Cl} + \log (1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}})$$

Reducción del polinomio por sendas zonas de predominio:



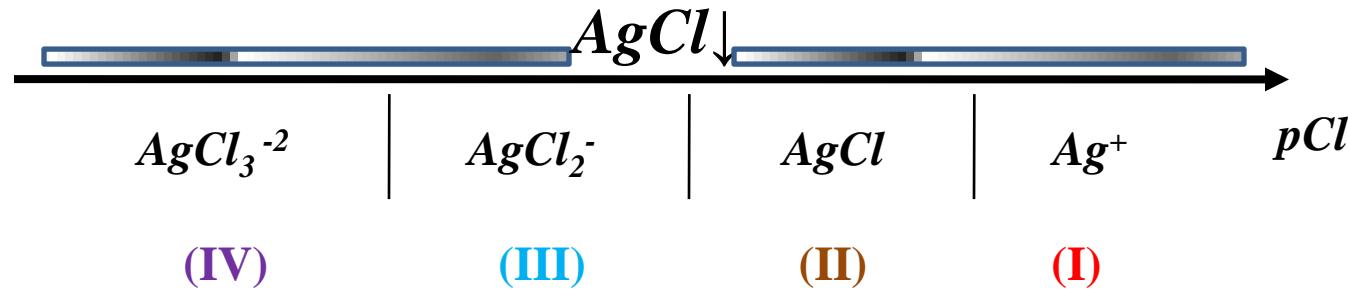
$$\log S' = -pK_s + p\text{Cl} + \log (1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}})$$

Reducción del polinomio por sendas zonas de predominio:



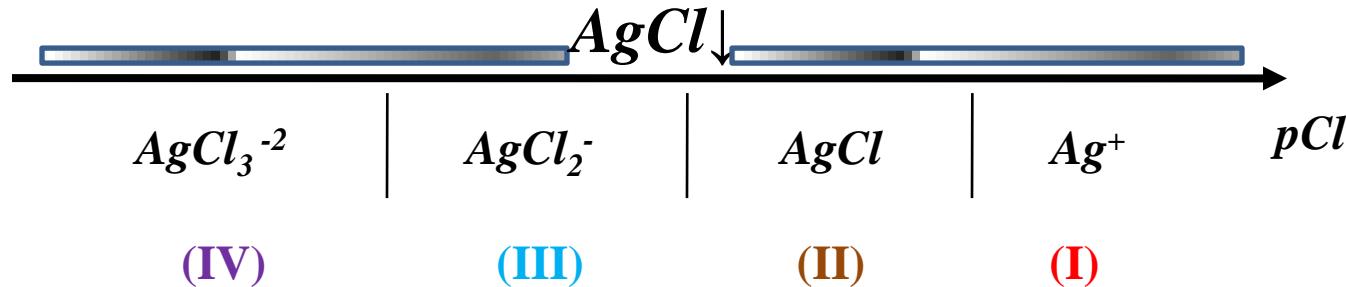
$$\log S' = -pK_s + pCl + \log (1 + 10^{3.1-pCl} + 10^{5.1-2pCl} + 10^{6.1-3pCl})$$

Reducción del polinomio por sendas zonas de predominio:



$$\log S' = -pK_s + pCl + \log (1 + 10^{3.1-pCl} + 10^{5.1-2pCl} + 10^{6.1-3pCl})$$

Reducción del polinomio por sendas zonas de predominio:

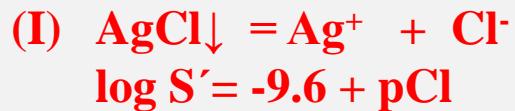


$$\log S' = -pK_s + p\text{Cl} + \log (1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}})$$

$$\log S' = -pK_s + p\text{Cl} + \log (1 + \mathbf{10^{3.1-p\text{Cl}}} + 10^{5.1-2p\text{Cl}} + 10^{6.1-3p\text{Cl}})$$

$$\log S' = -pK_s + p\text{Cl} + \log (1 + 10^{3.1-p\text{Cl}} + \mathbf{10^{5.1-2p\text{Cl}}} + 10^{6.1-3p\text{Cl}})$$

$$\log S' = -pK_s + p\text{Cl} + \log (1 + 10^{3.1-p\text{Cl}} + 10^{5.1-2p\text{Cl}} + \mathbf{10^{6.1-3p\text{Cl}}})$$



$$\log S' = -\text{pK}_s + \text{pCl} = -9.6 + \text{pCl}$$



$$\log S' = \log S_0 = -6$$

$$\log S' = -\text{pK}_s + \text{pCl} + \log(10^{3.1-\text{pCl}})$$

$$\log S' = -9.6 + 3.1 + \text{pCl} - \text{pCl} = -6$$



$$\log S' = -4.5 - \text{pCl}$$

$$\log S' = -\text{pK}_s + \text{pCl} + \log(10^{5.1-2\text{pCl}})$$

$$\log S' = -9.6 + 5.1 + \text{pCl} - 2\text{pCl} = -4.5 - \text{pCl}$$

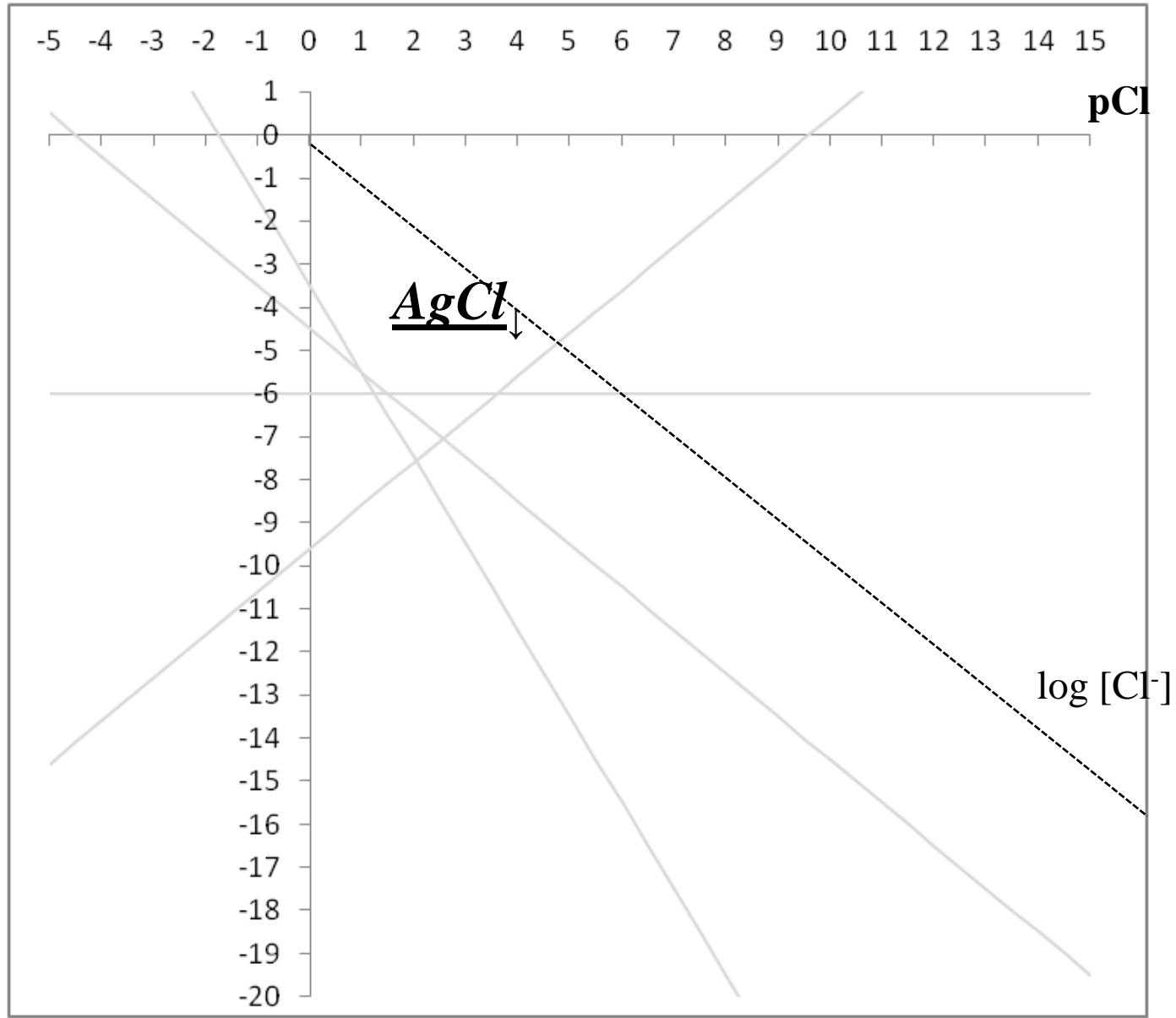


$$\log S' = -3.5 - 2\text{pCl}$$

$$\log S' = -\text{pK}_s + \text{pCl} + \log(10^{6.1-3\text{pCl}})$$

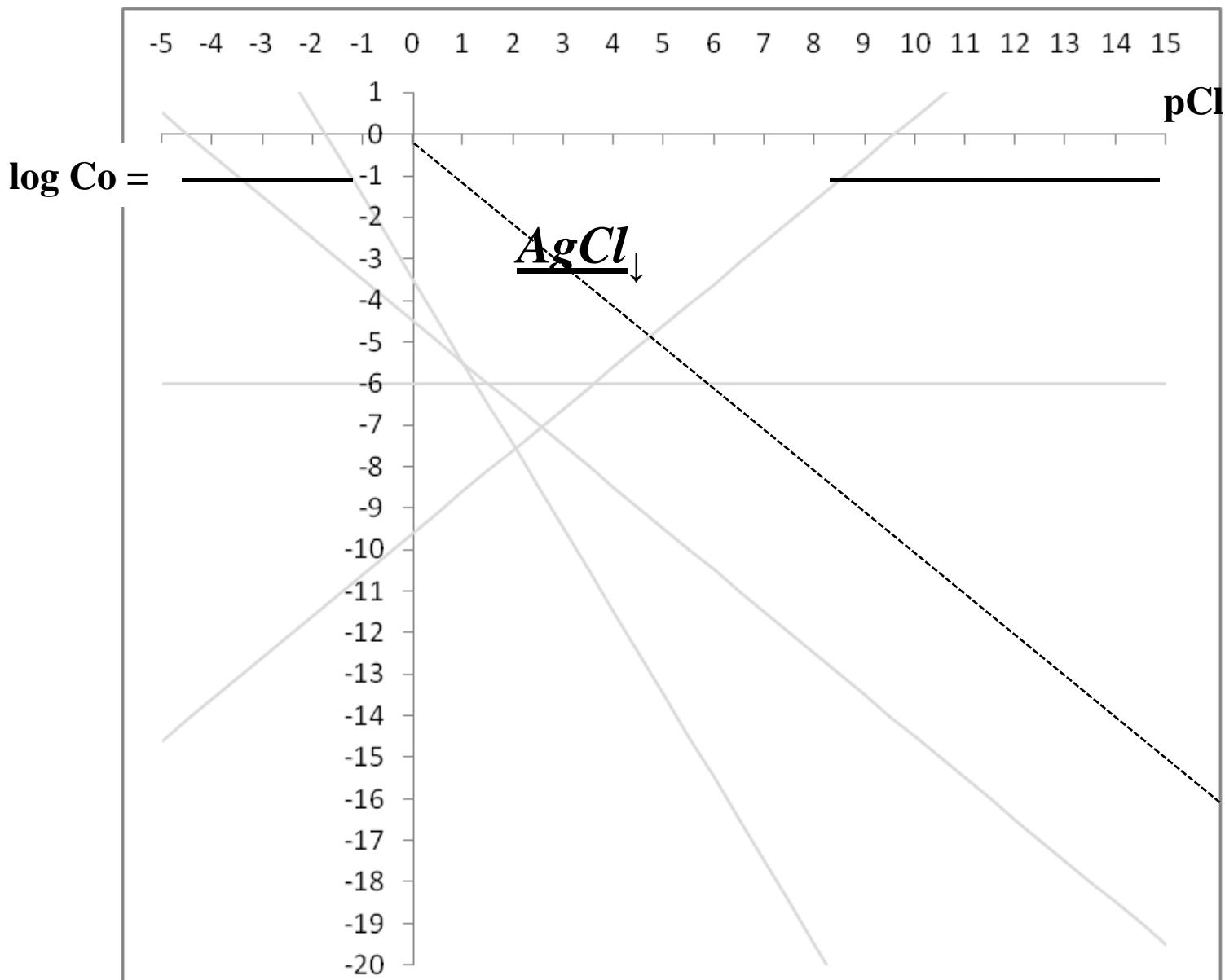
$$\log S' = -9.6 + 6.1 + \text{pCl} - 3\text{pCl} = -3.5 - 2\text{pCl}$$

$\log [\text{Ag}^+] = \log S = f(\text{pH})$:



$$\log [\text{Ag}^+]' = \log S' = f(\text{pH}):$$

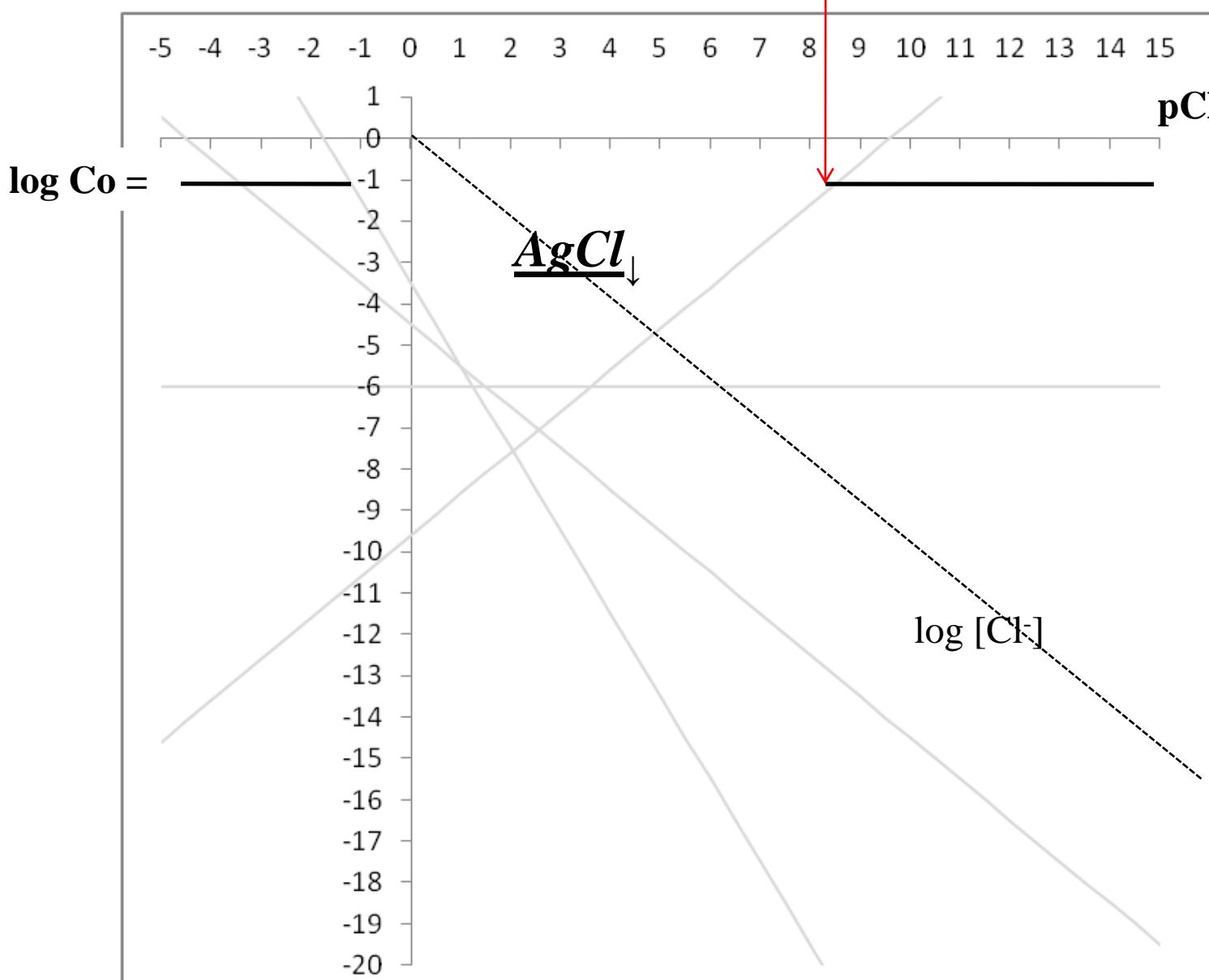
(1)



$\log [\text{Ag}^+] = \log S' = f(\text{pH})$:

pCl de inicio de precipitación

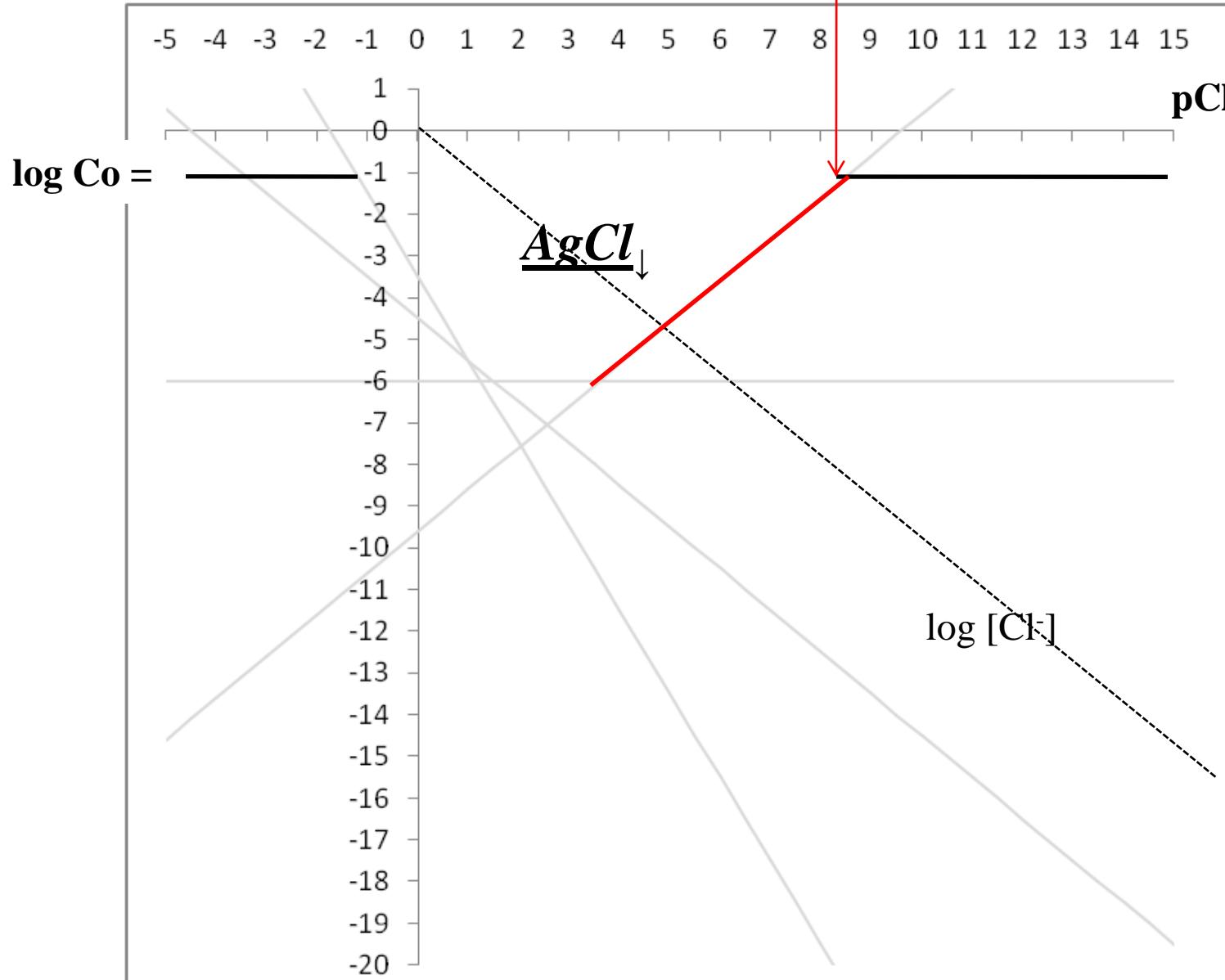
(1)



$\log [\text{Ag}^+] = \log S' = f(\text{pH})$:

pCl de inicio de precipitación

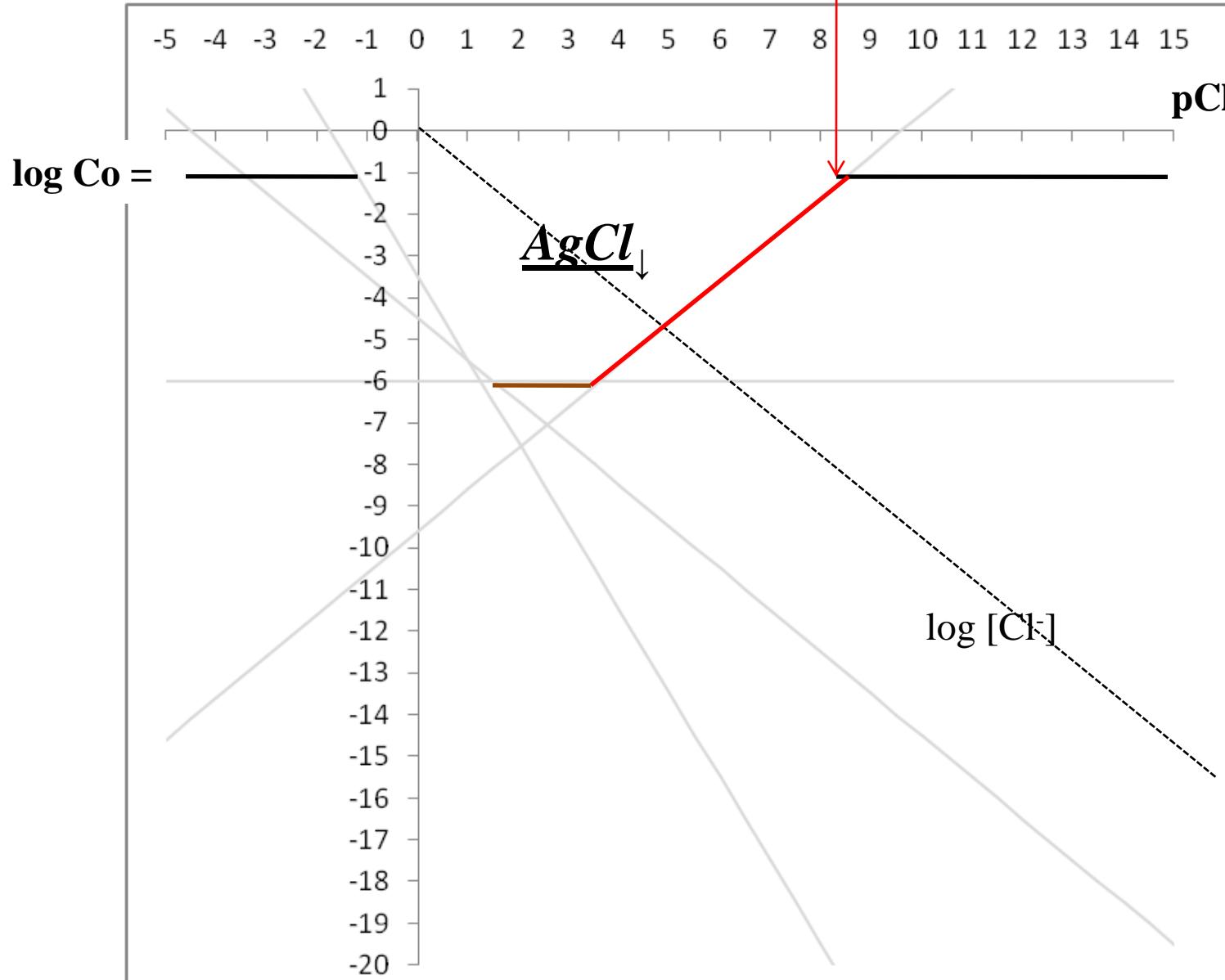
(1)



$\log [\text{Ag}^+] = \log S' = f(\text{pH})$:

pCl de inicio de precipitación

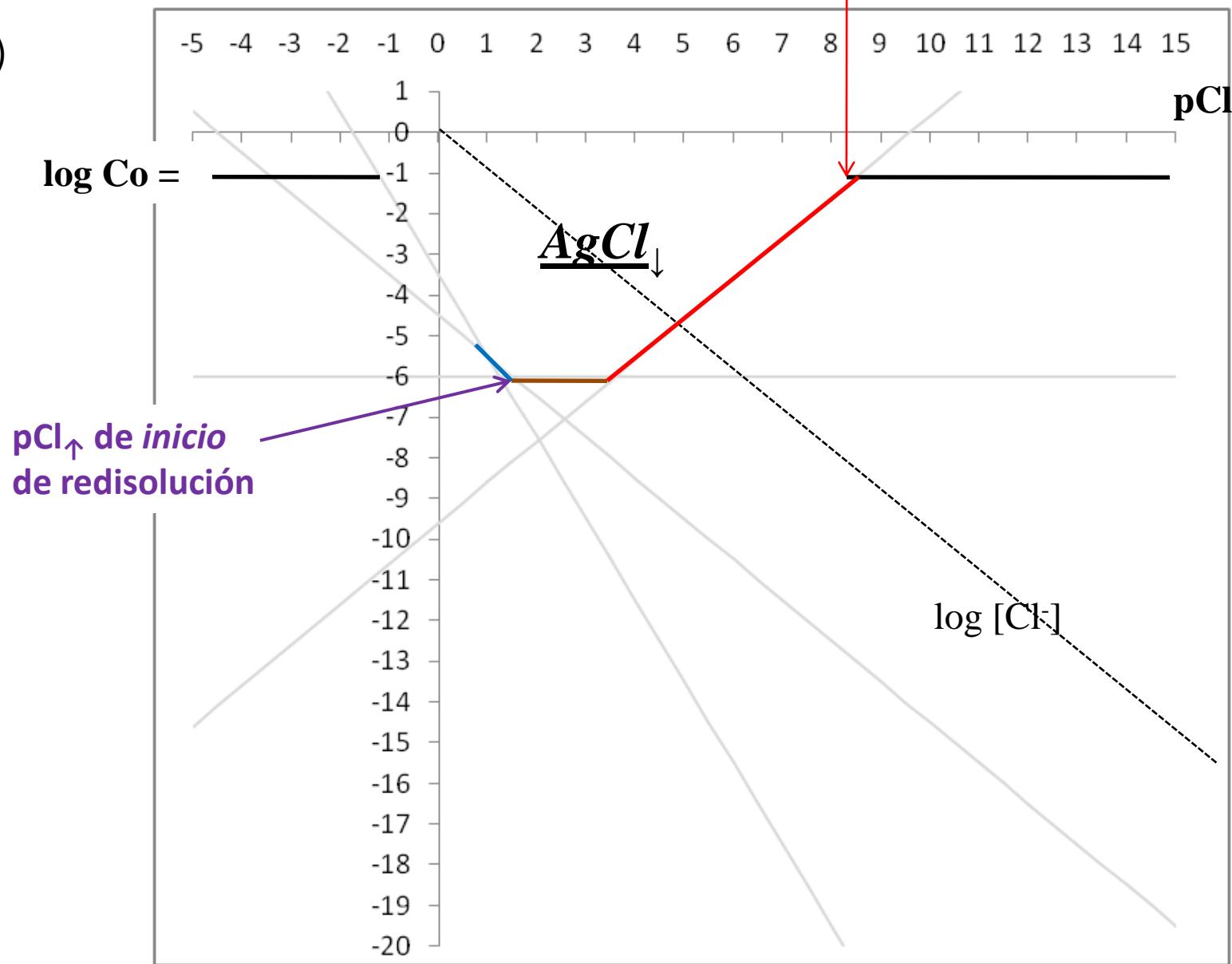
(1)



$\log [\text{Ag}^+] = \log S' = f(\text{pH})$:

pCl_{\downarrow} de inicio de precipitación

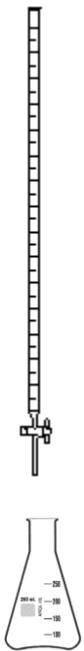
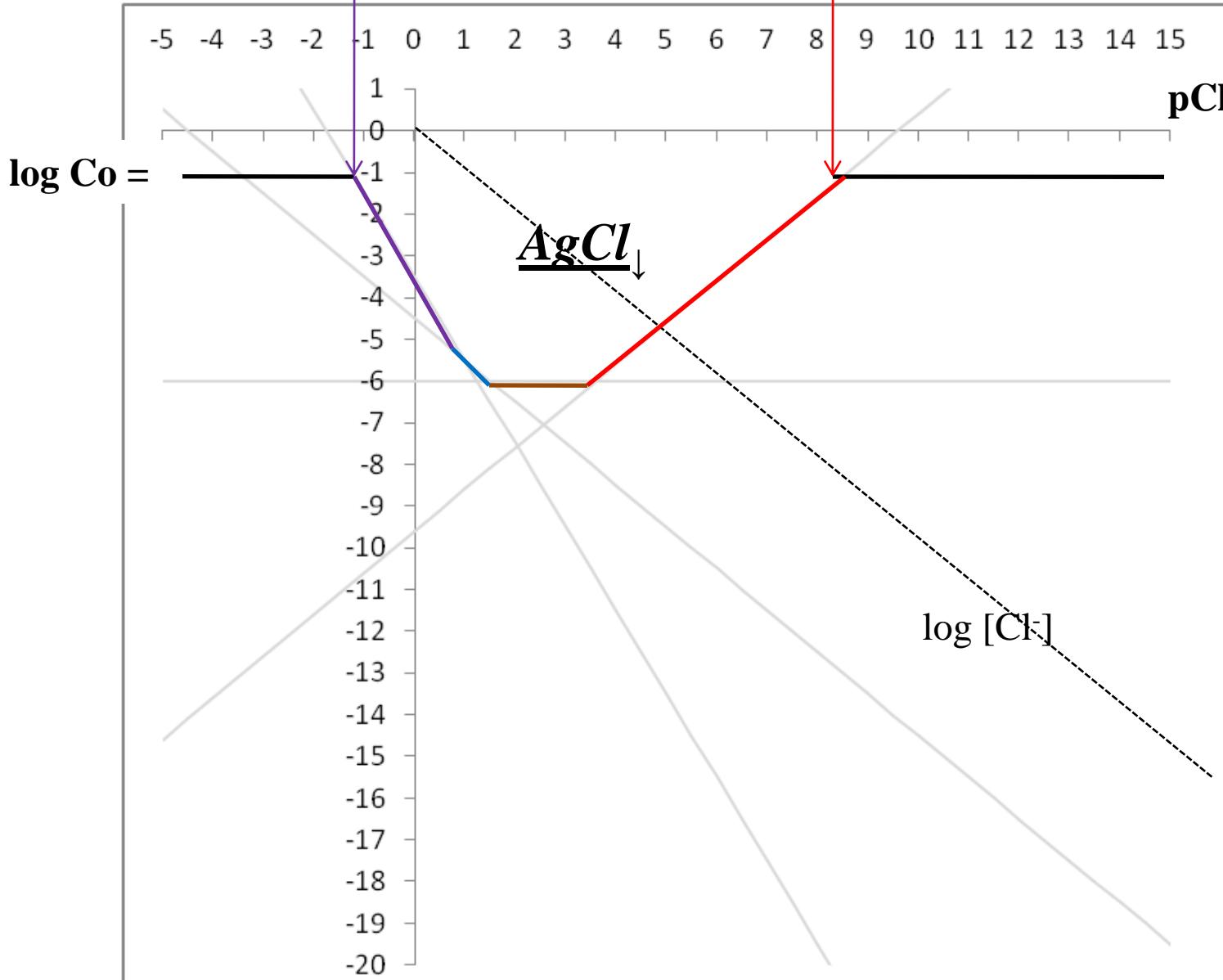
(1)



$p\text{Cl}_{\downarrow}$ de fin de precipitación

$p\text{Cl}_{\downarrow}$ de inicio de precipitación

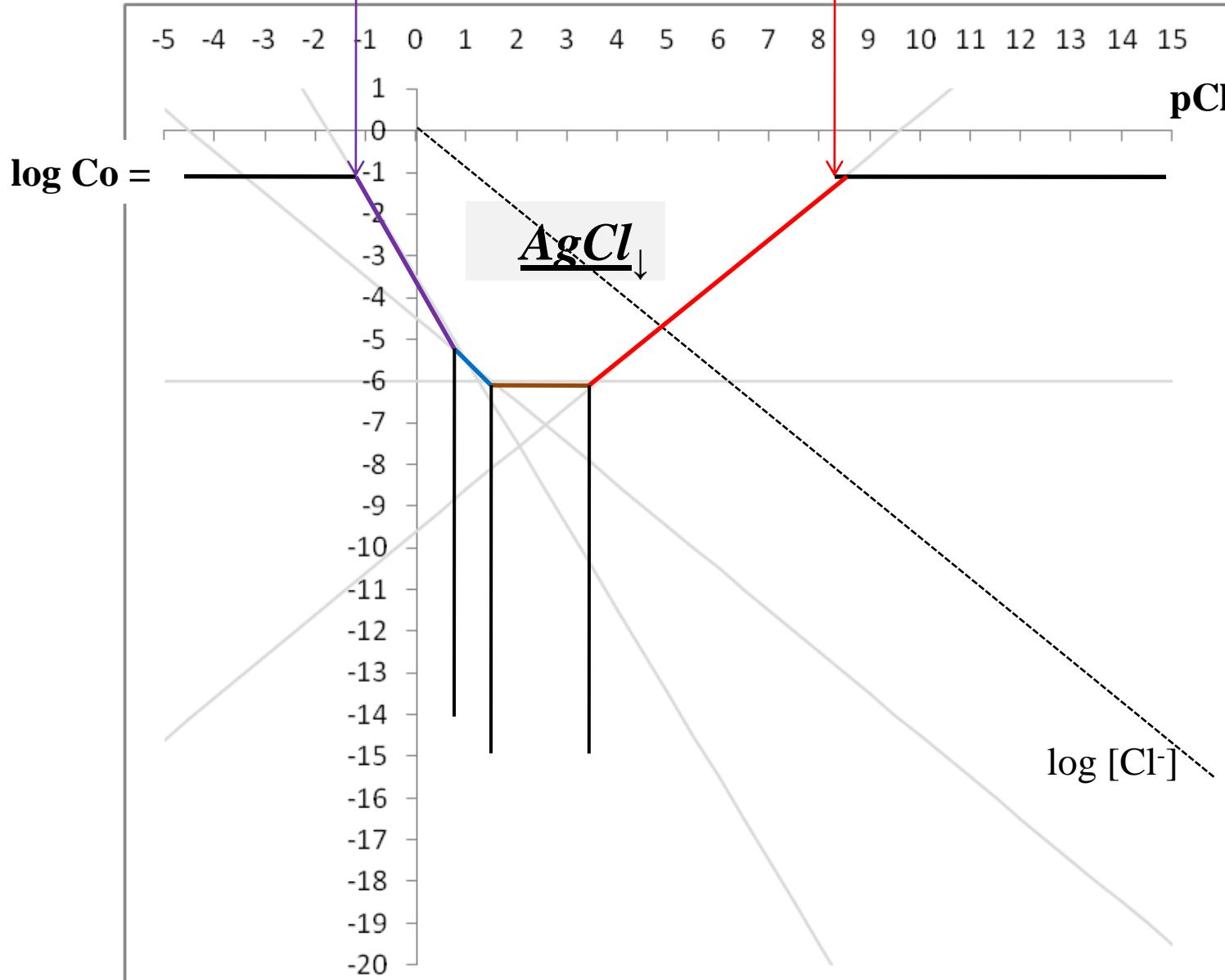
(1)



pCl_{\downarrow} de fin de precipitación

pCl_{\downarrow} de inicio de precipitación

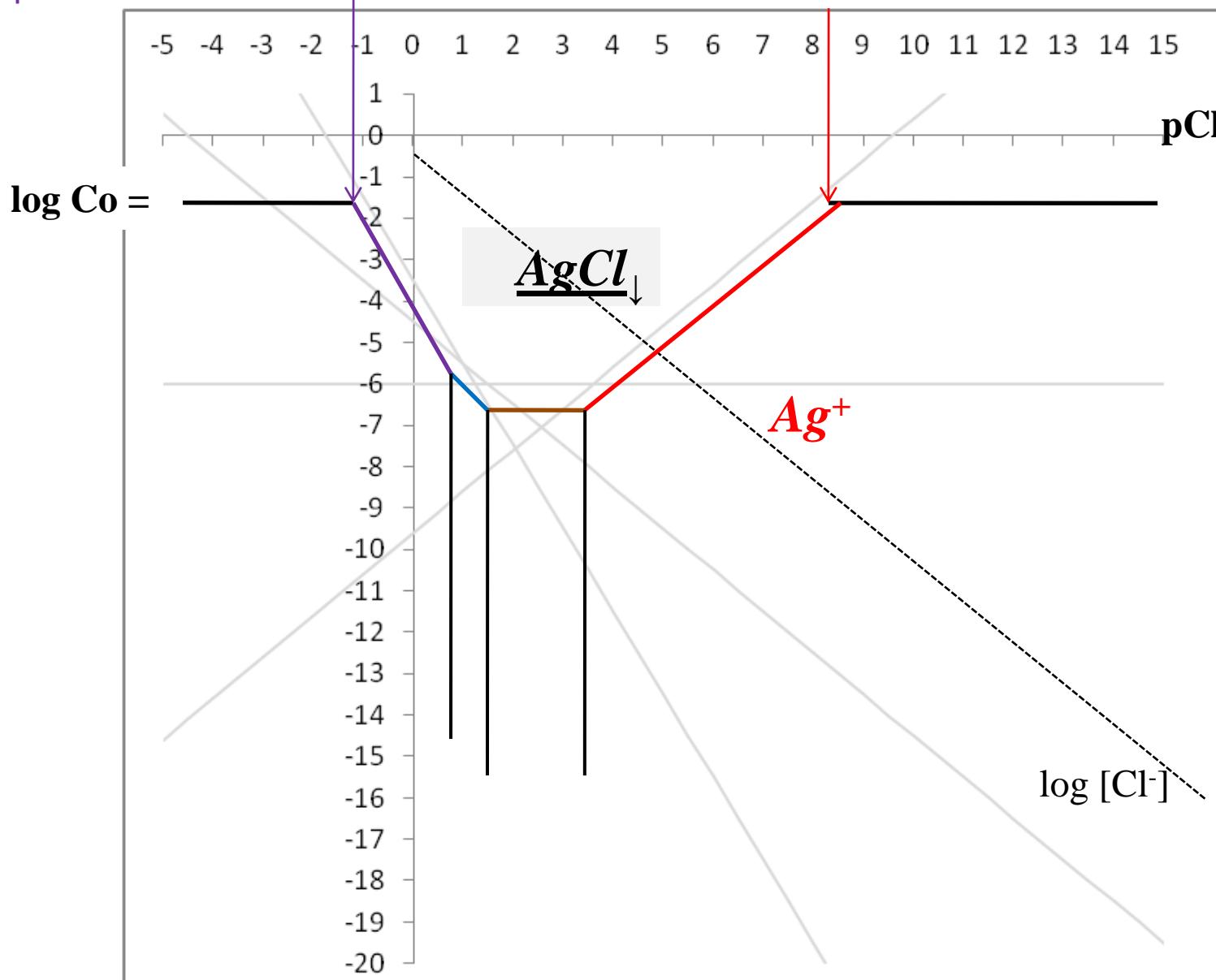
(1)



$p\text{ClI}_\uparrow$ de fin de redisolución

$p\text{ClI}_\downarrow$ de inicio de precipitación

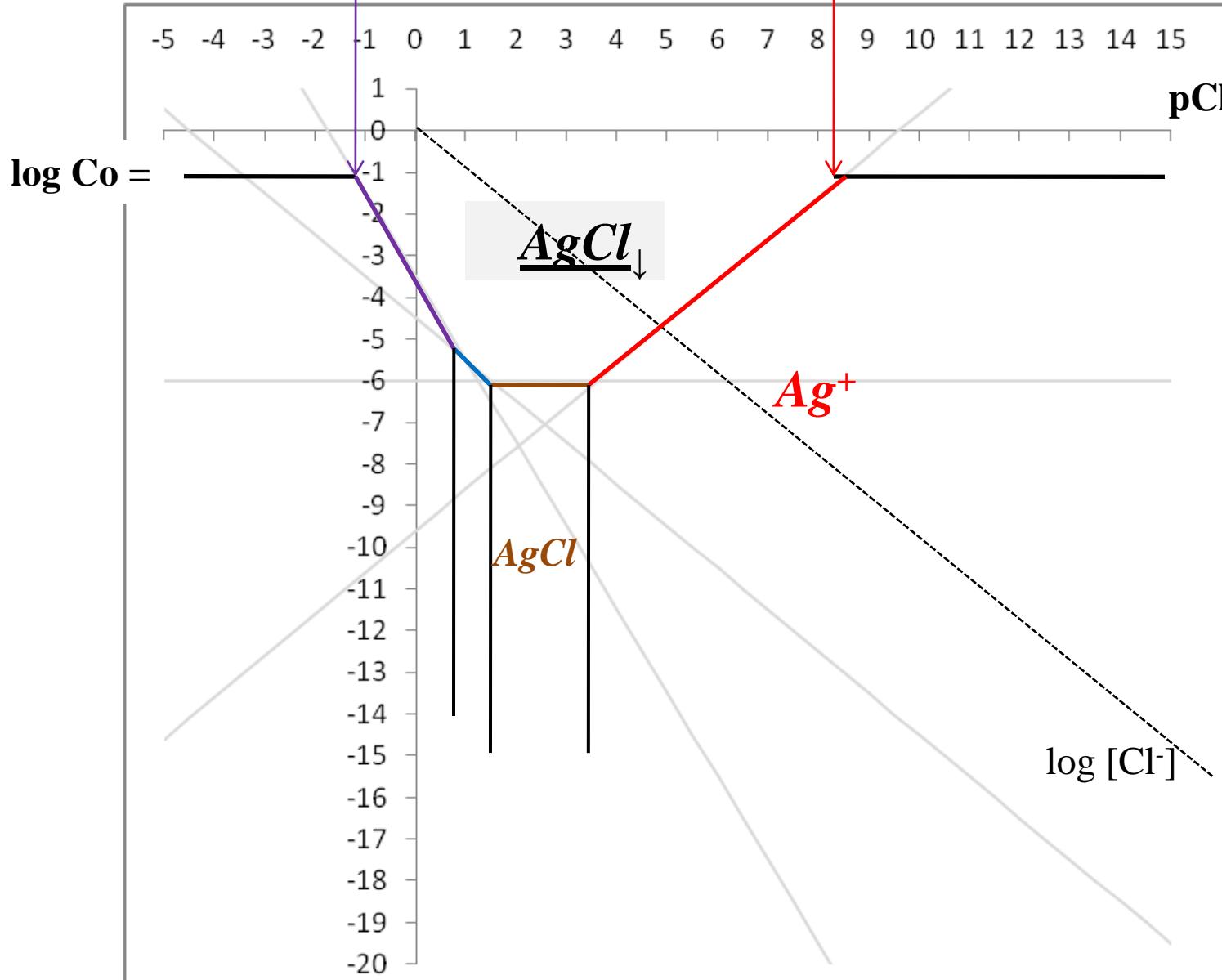
(1)



pCl_{\downarrow} de fin de precipitación

pCl_{\downarrow} de inicio de precipitación

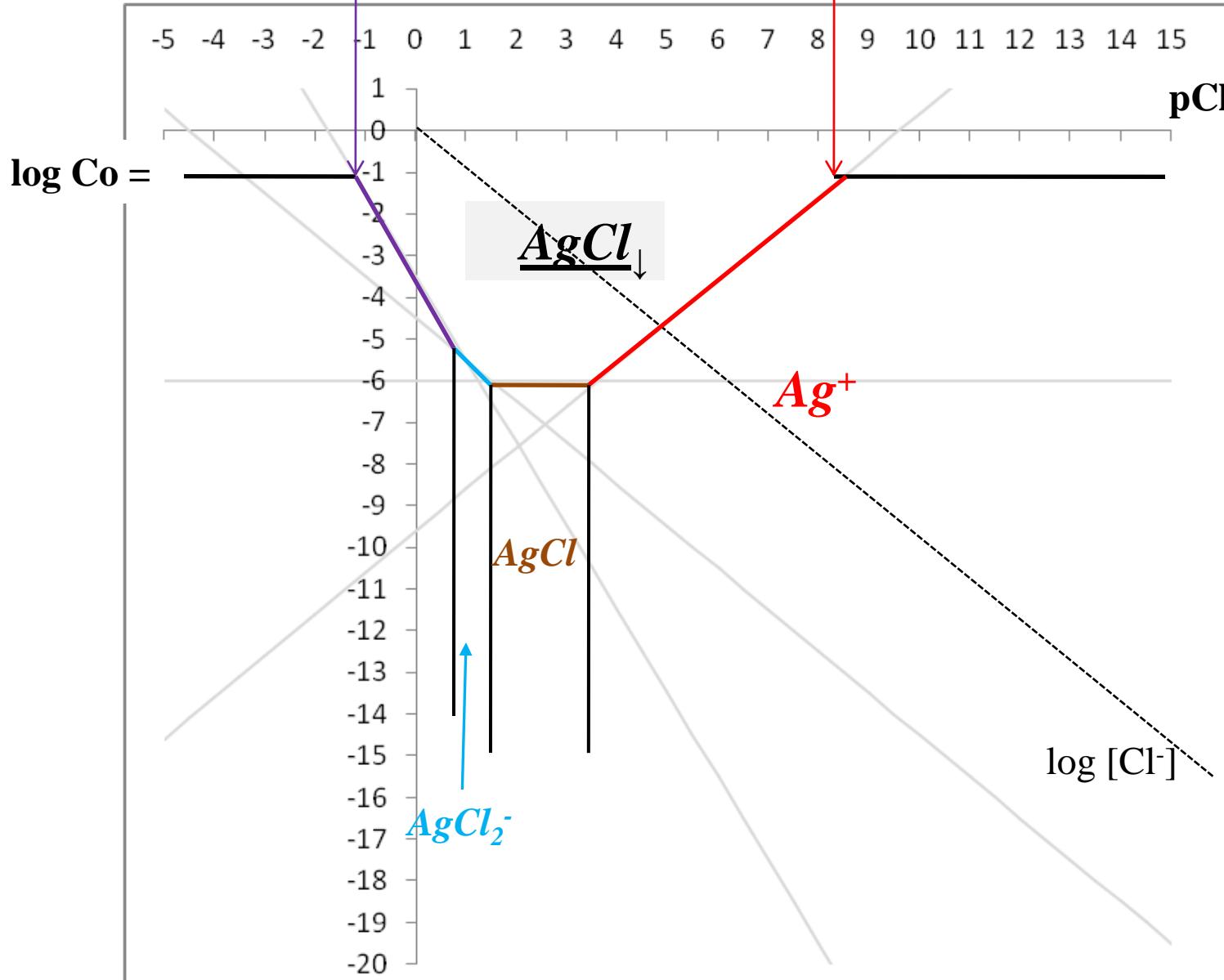
(1)



pCl_{\downarrow} de fin de precipitación

pCl_{\downarrow} de inicio de precipitación

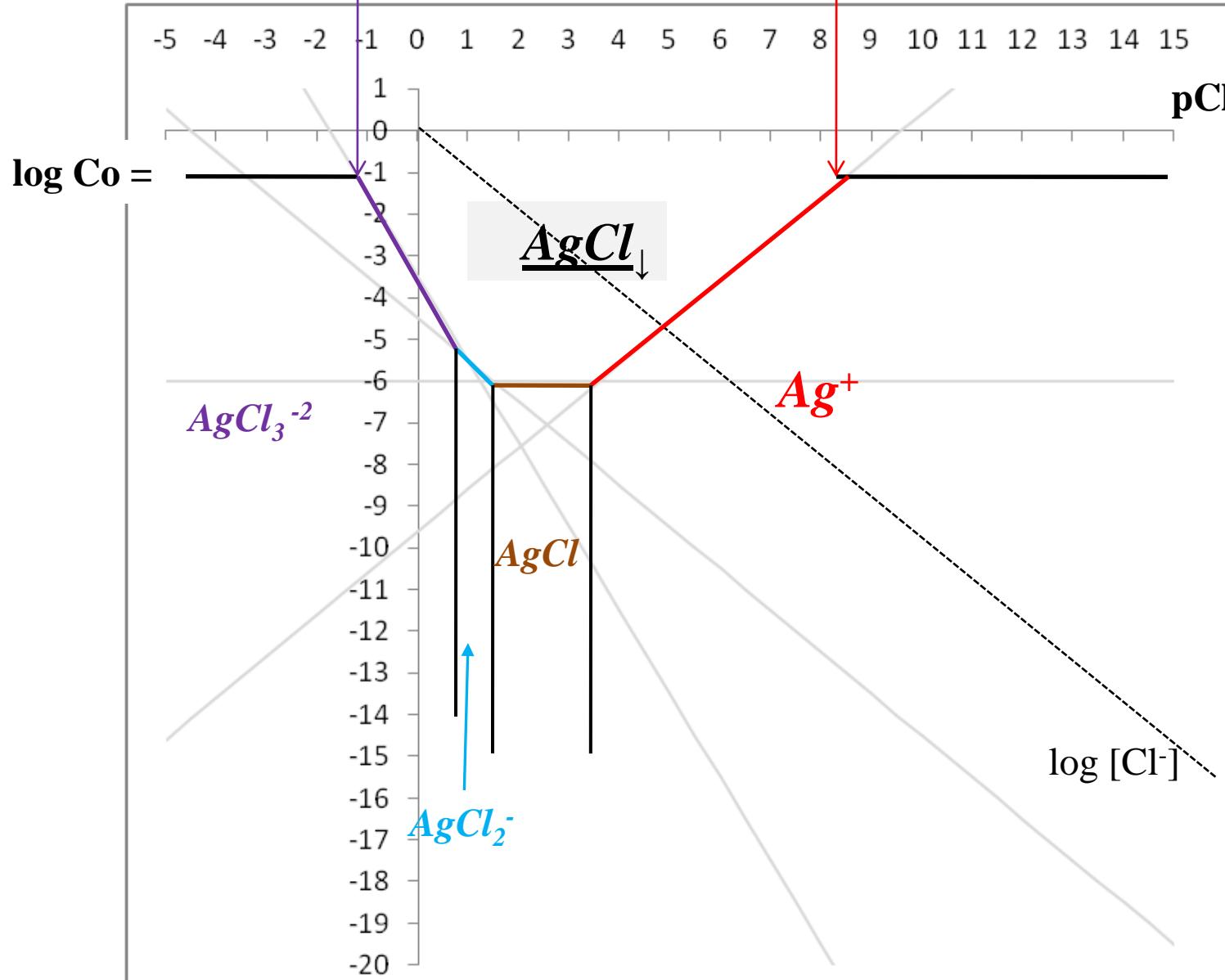
(1)



pCl_{\downarrow} de fin de precipitación

pCl_{\downarrow} de inicio de precipitación

(1)



pCl_{\downarrow} de fin de precipitación

(1)

$$\log C_o =$$

pCl_{\downarrow} de inicio de precipitación



$$\log [Cl^-]$$

$$\log S' = -pK_s + pCl + \log (1 + 10^{3.1-pCl} + 10^{5.1-2pCl} + 10^{6.1-3pCl}) :$$

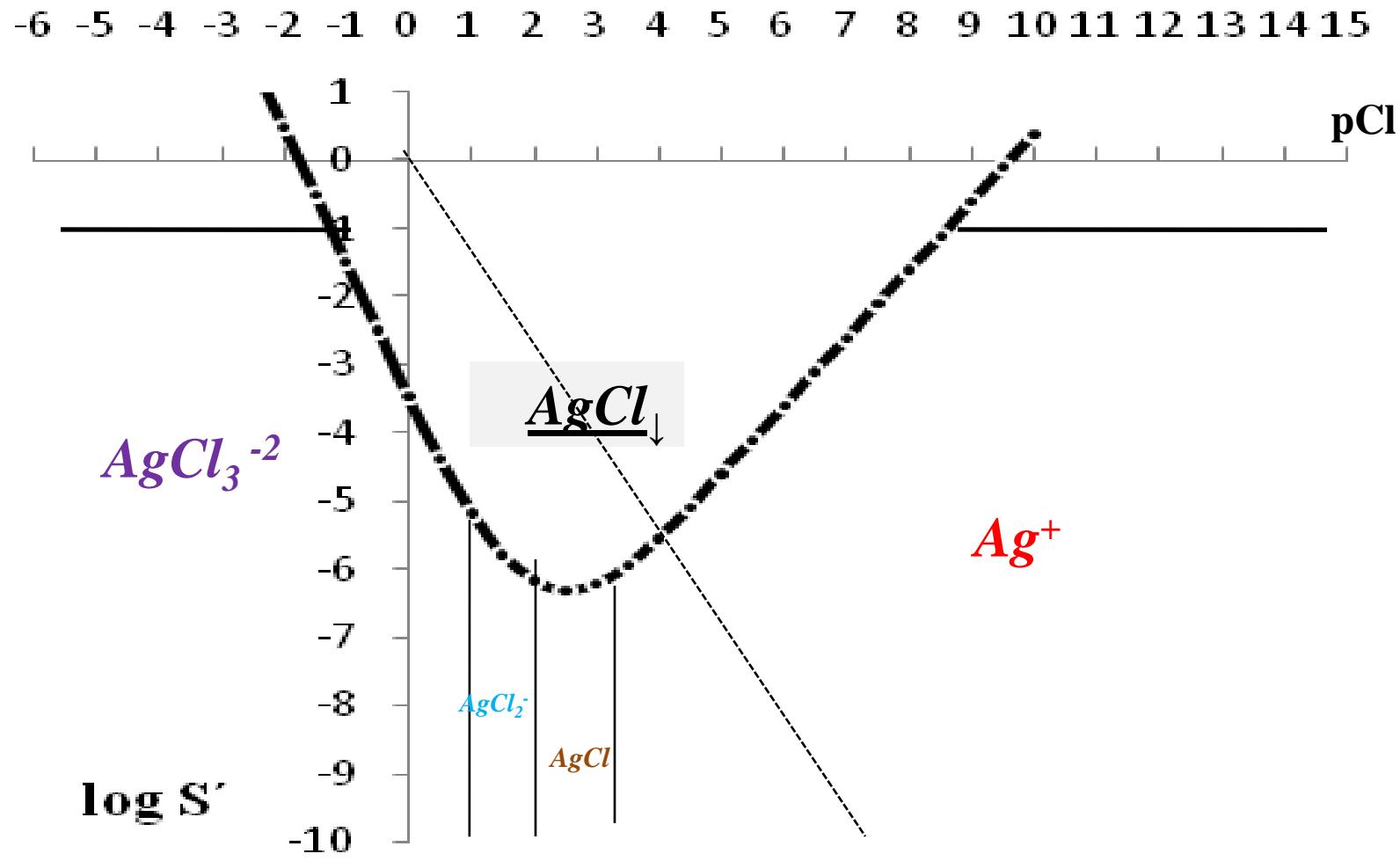


Diagrama homogéneo:

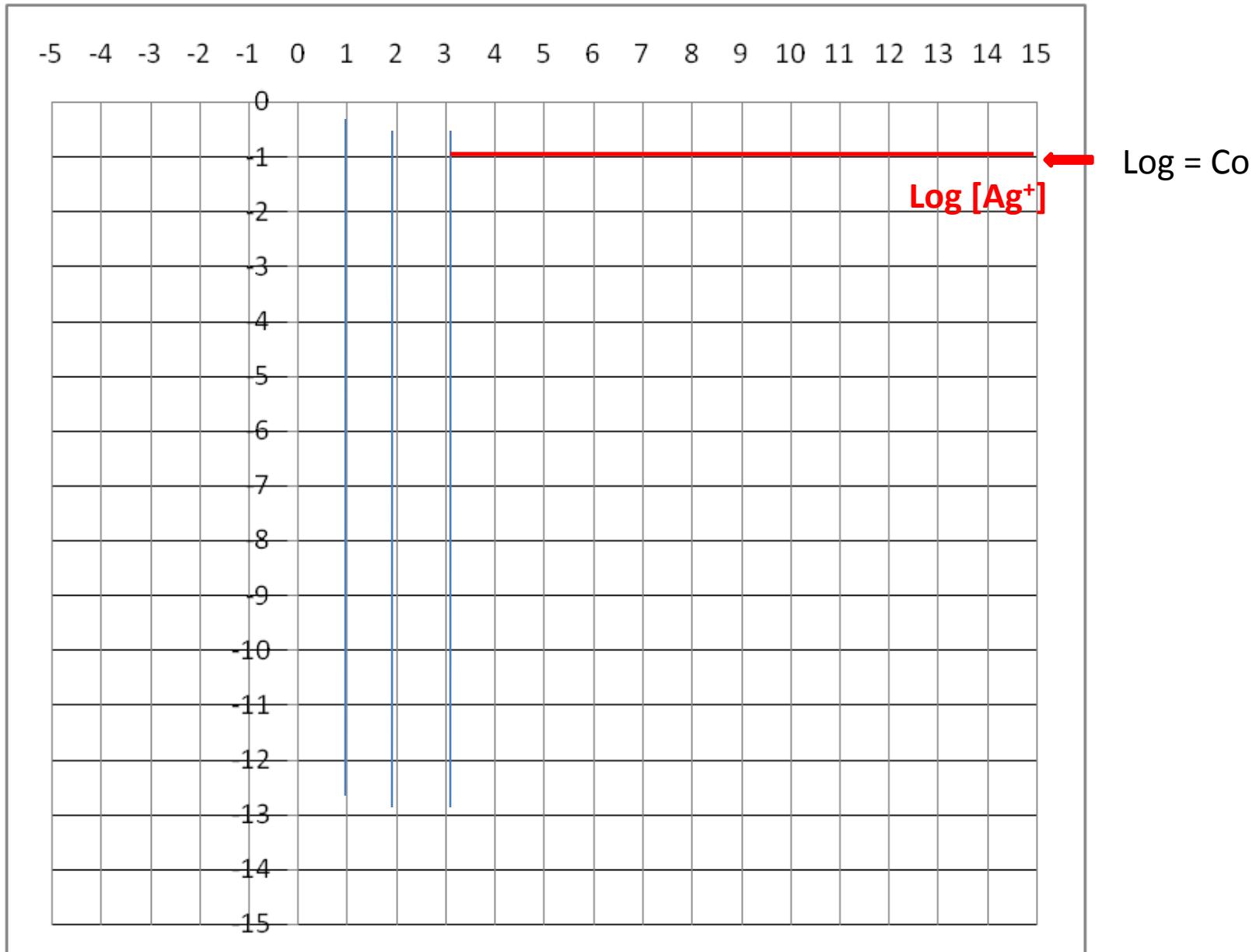


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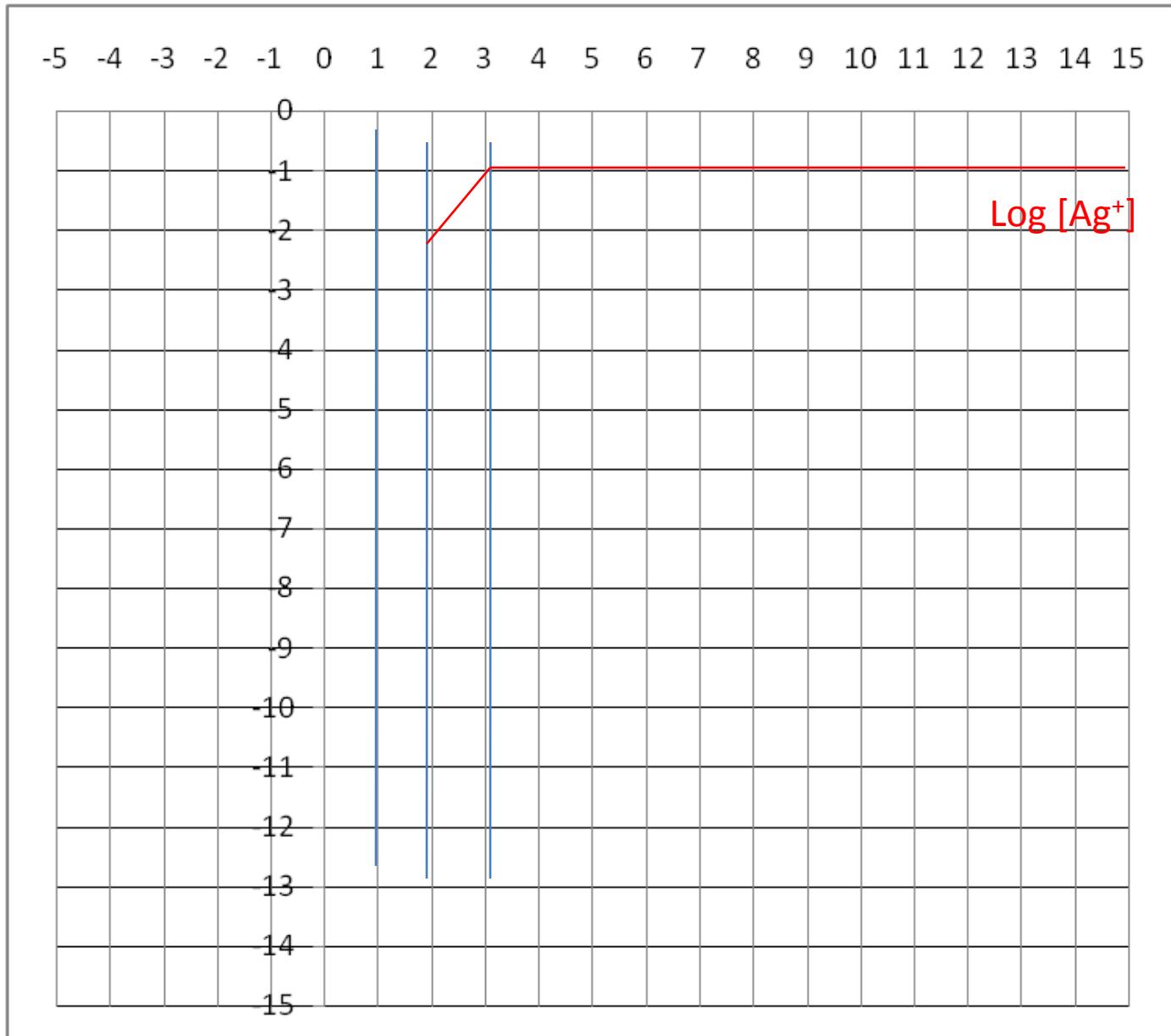


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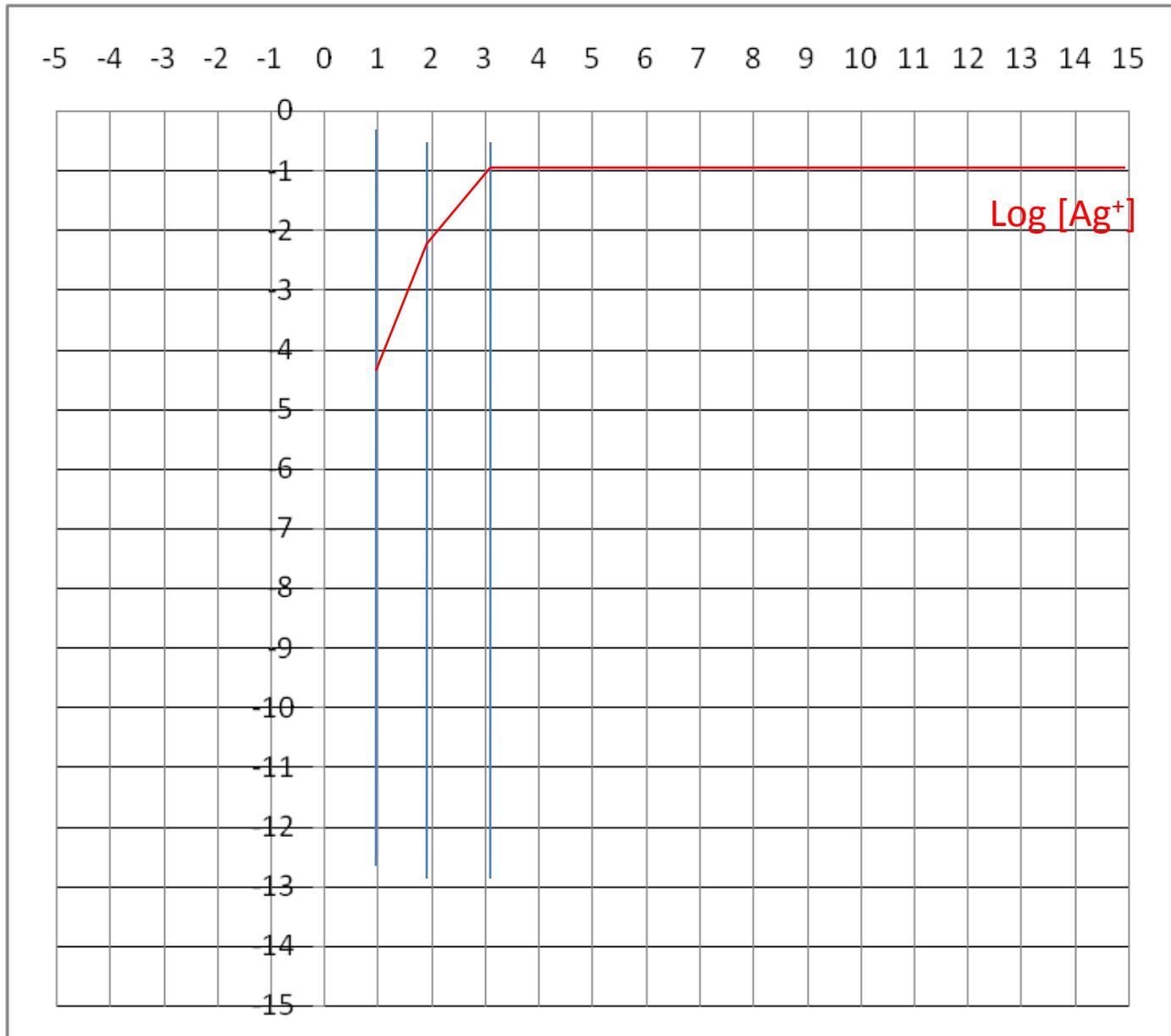


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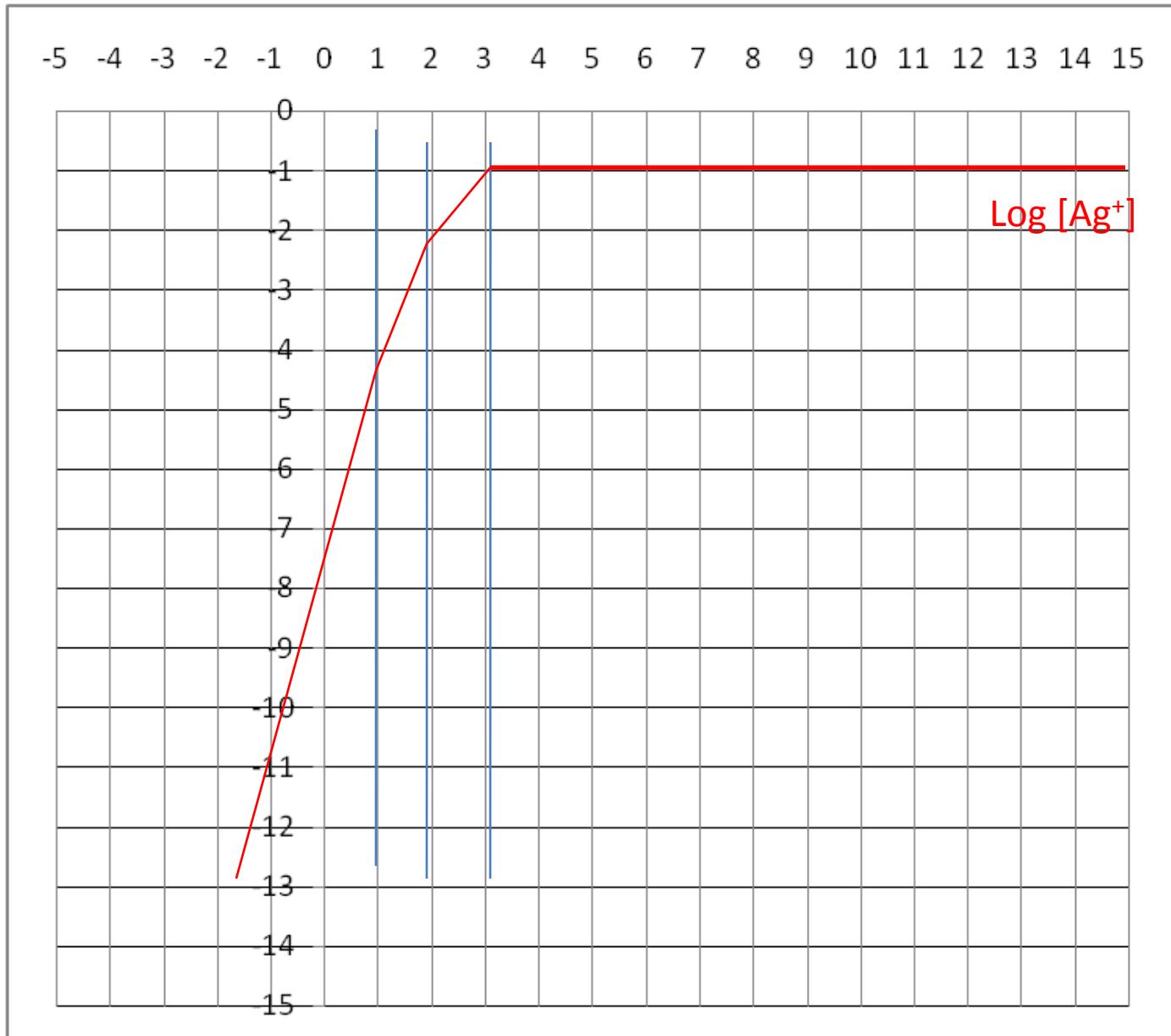


Diagrama homogéneo:

Log [AgCl]

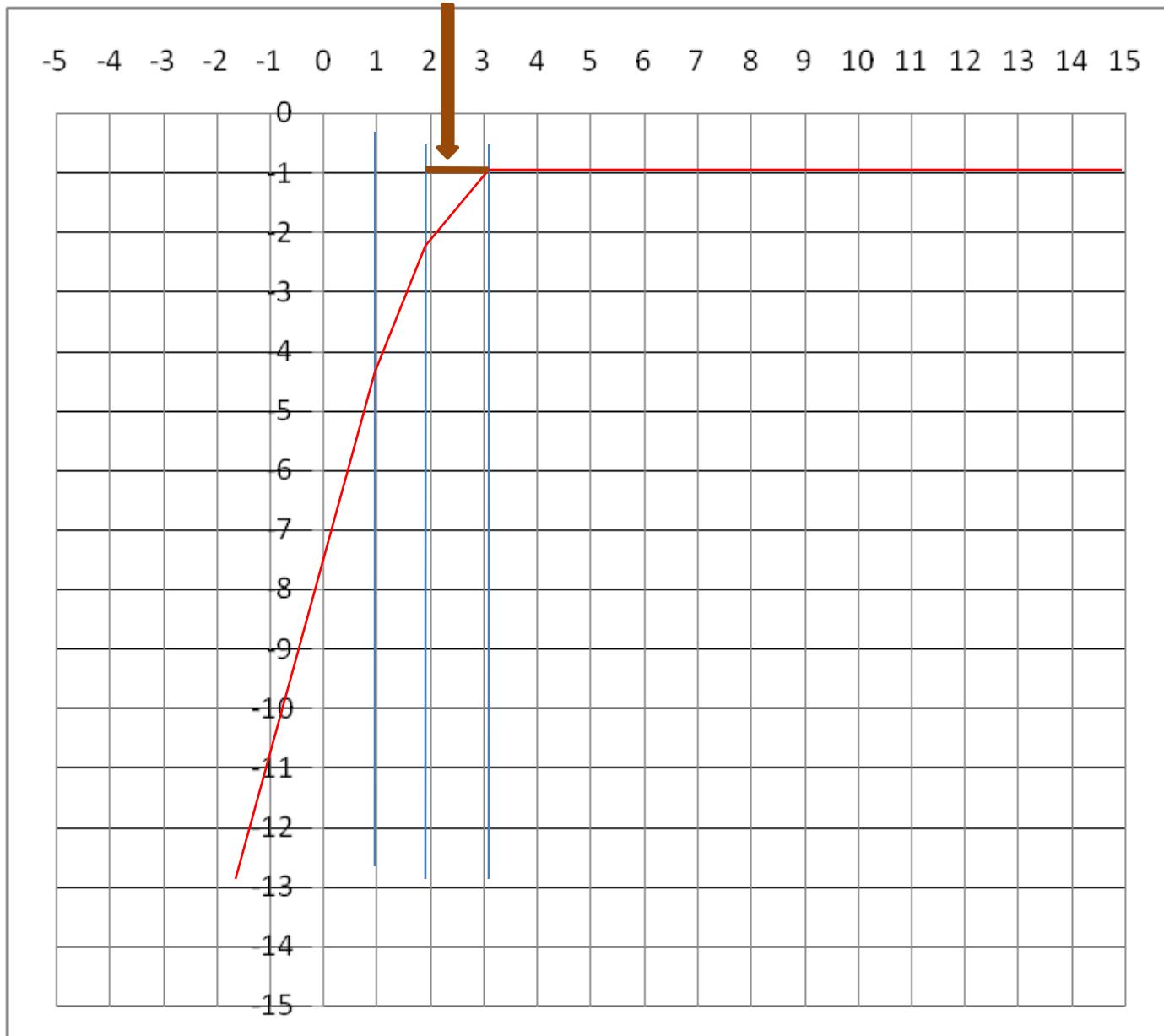


Diagrama homogéneo:

Log [AgCl]

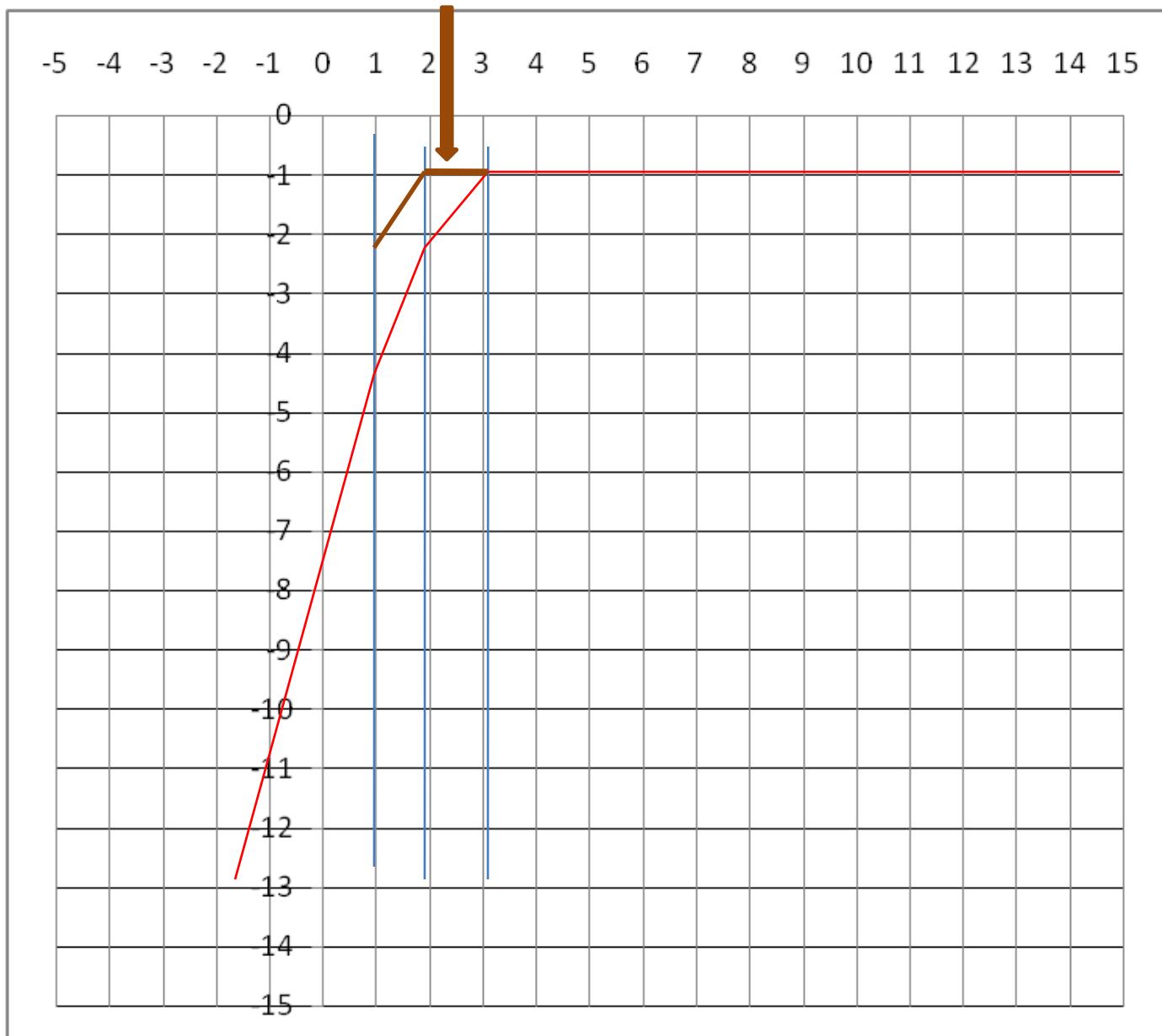


Diagrama homogéneo:

Log [AgCl]

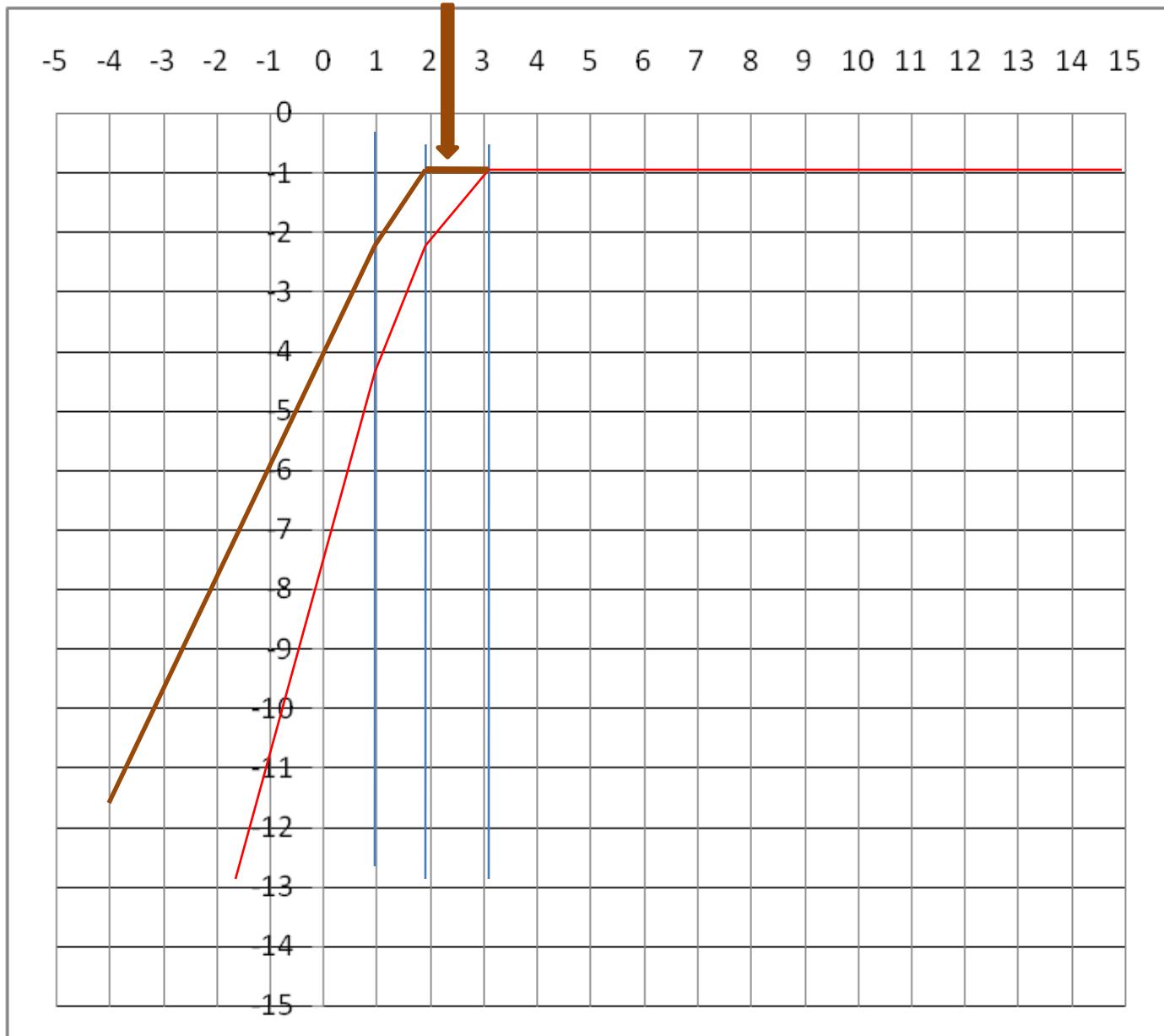
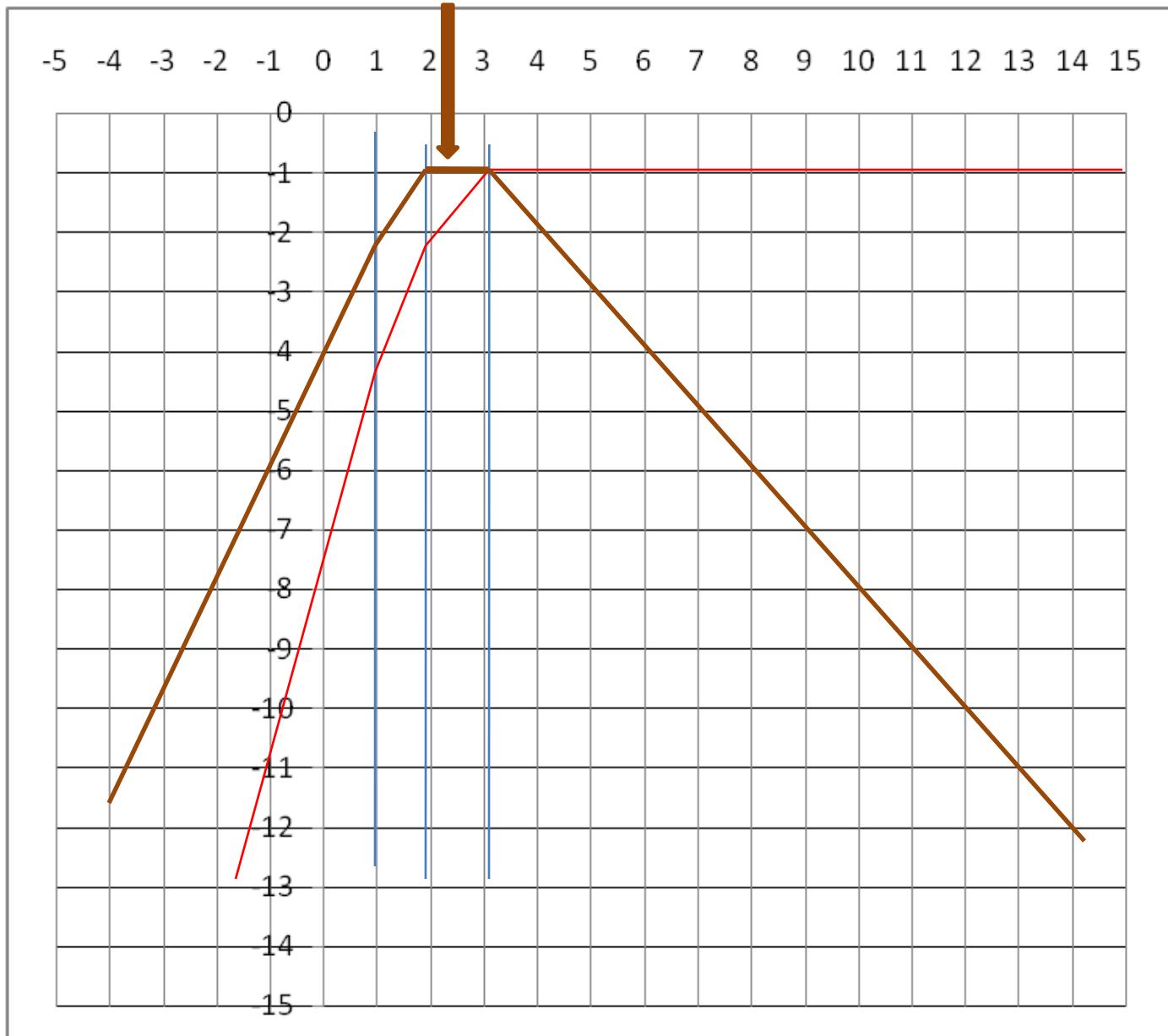
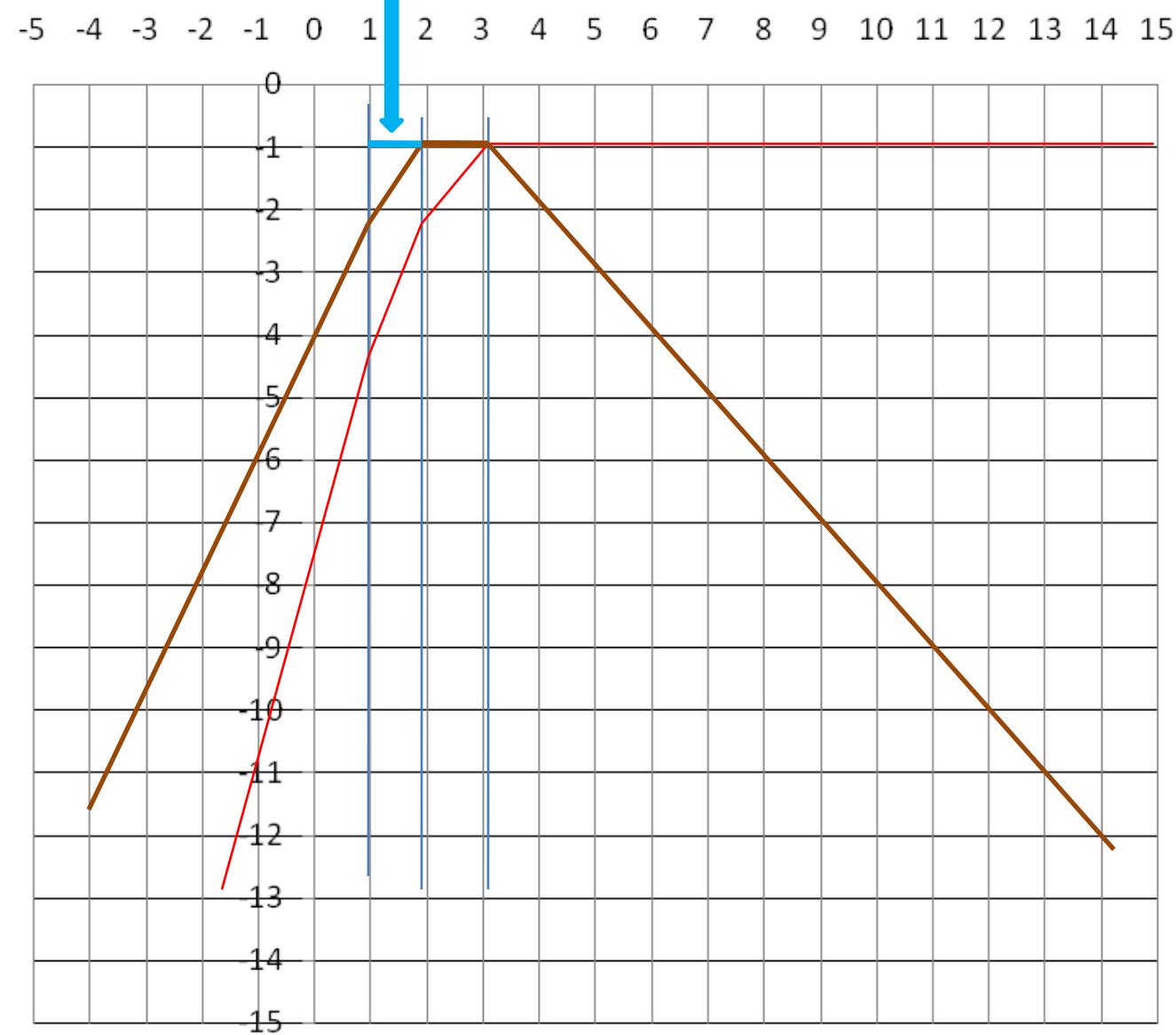


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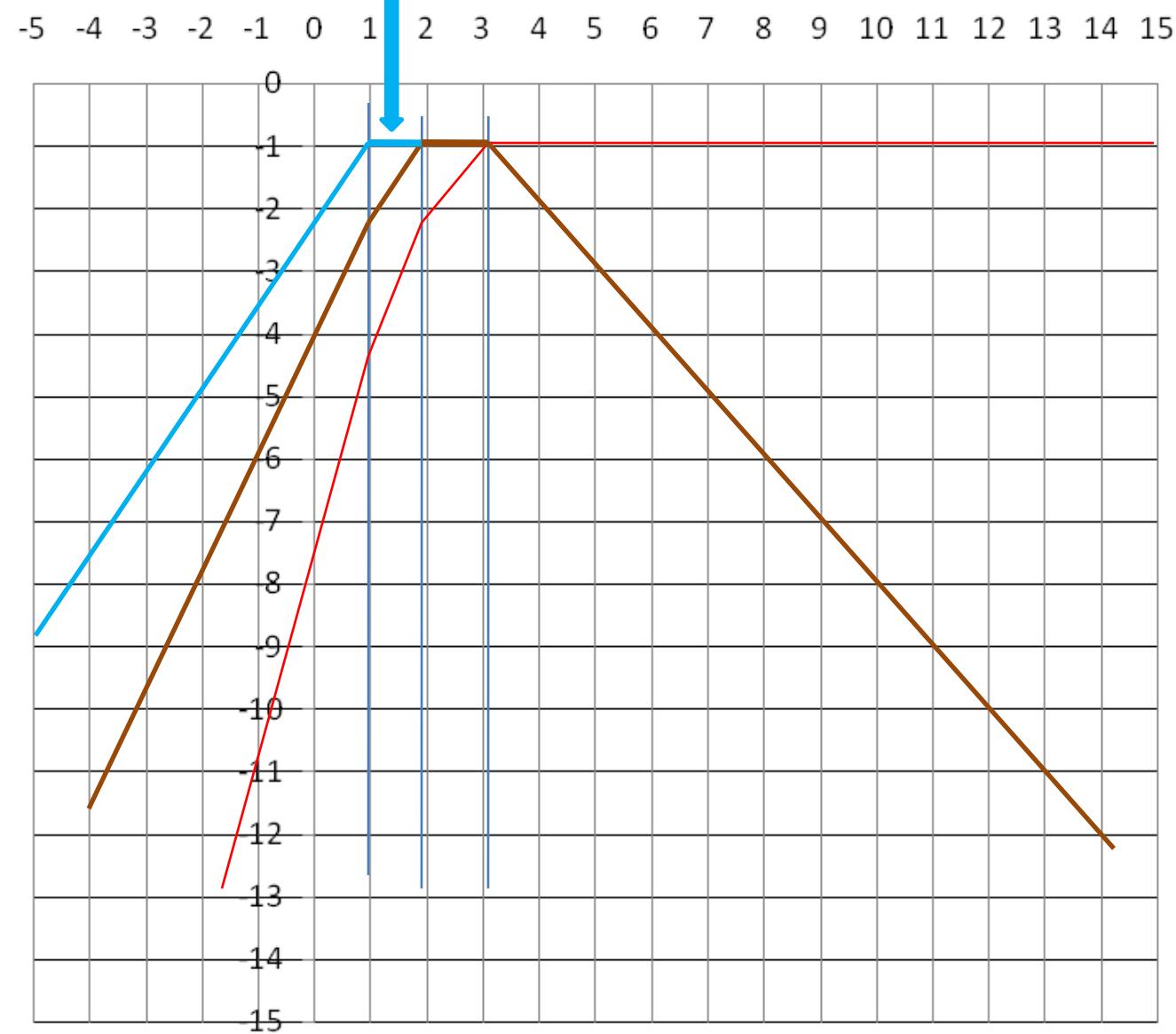
Log [AgCl]



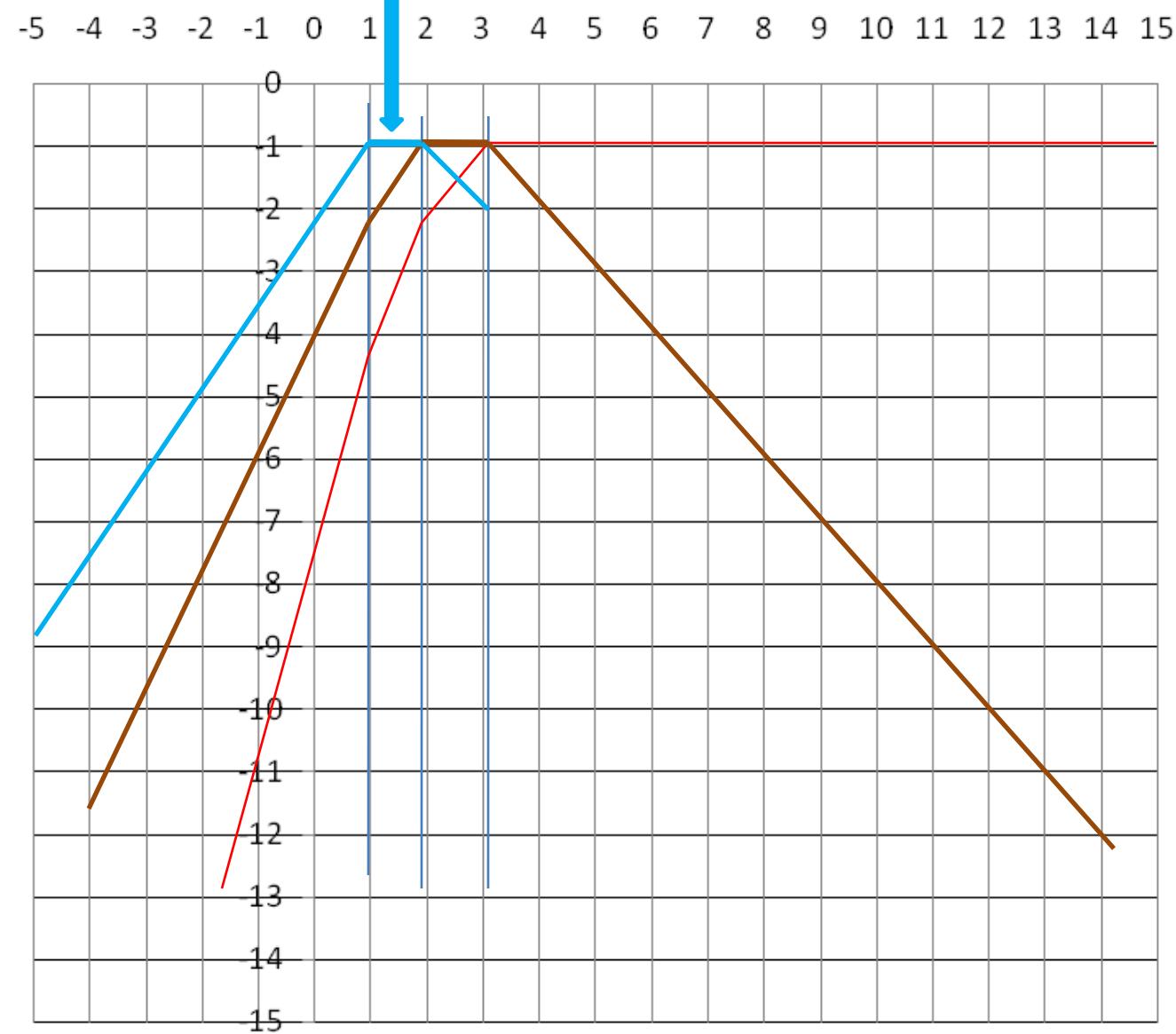
Log [AgCl₂⁻]



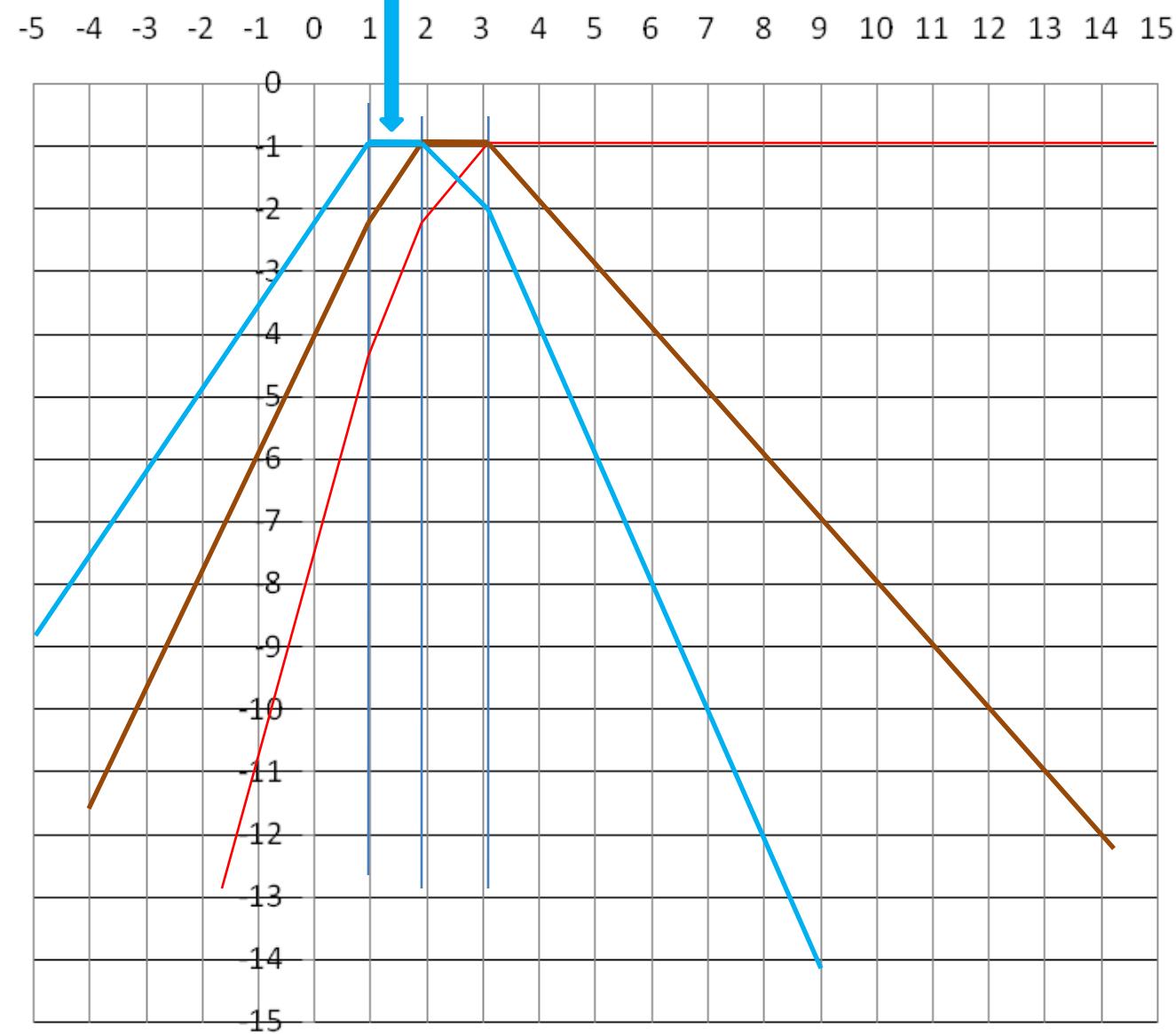
Log [AgCl₂⁻]



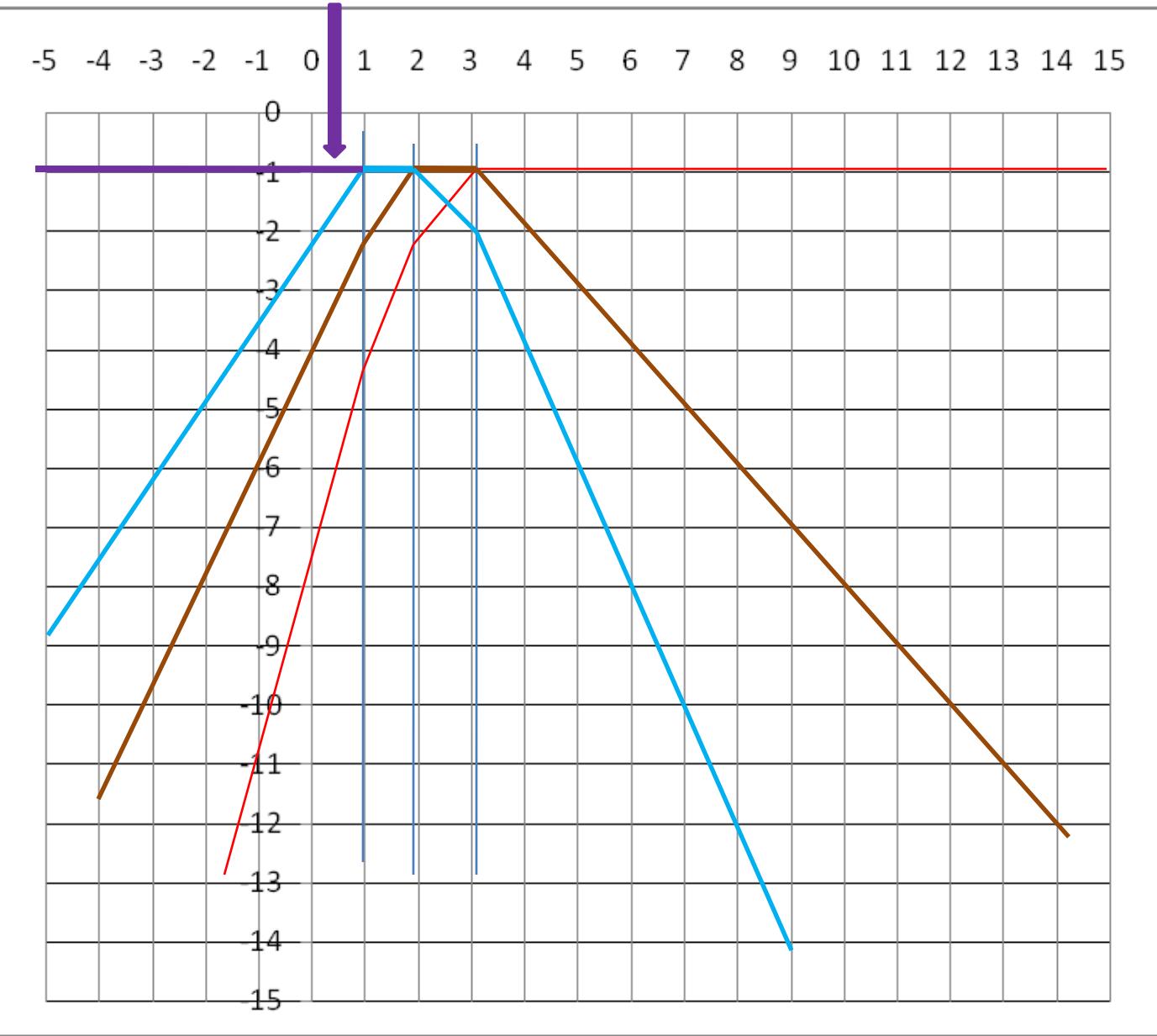
Log [AgCl₂⁻]



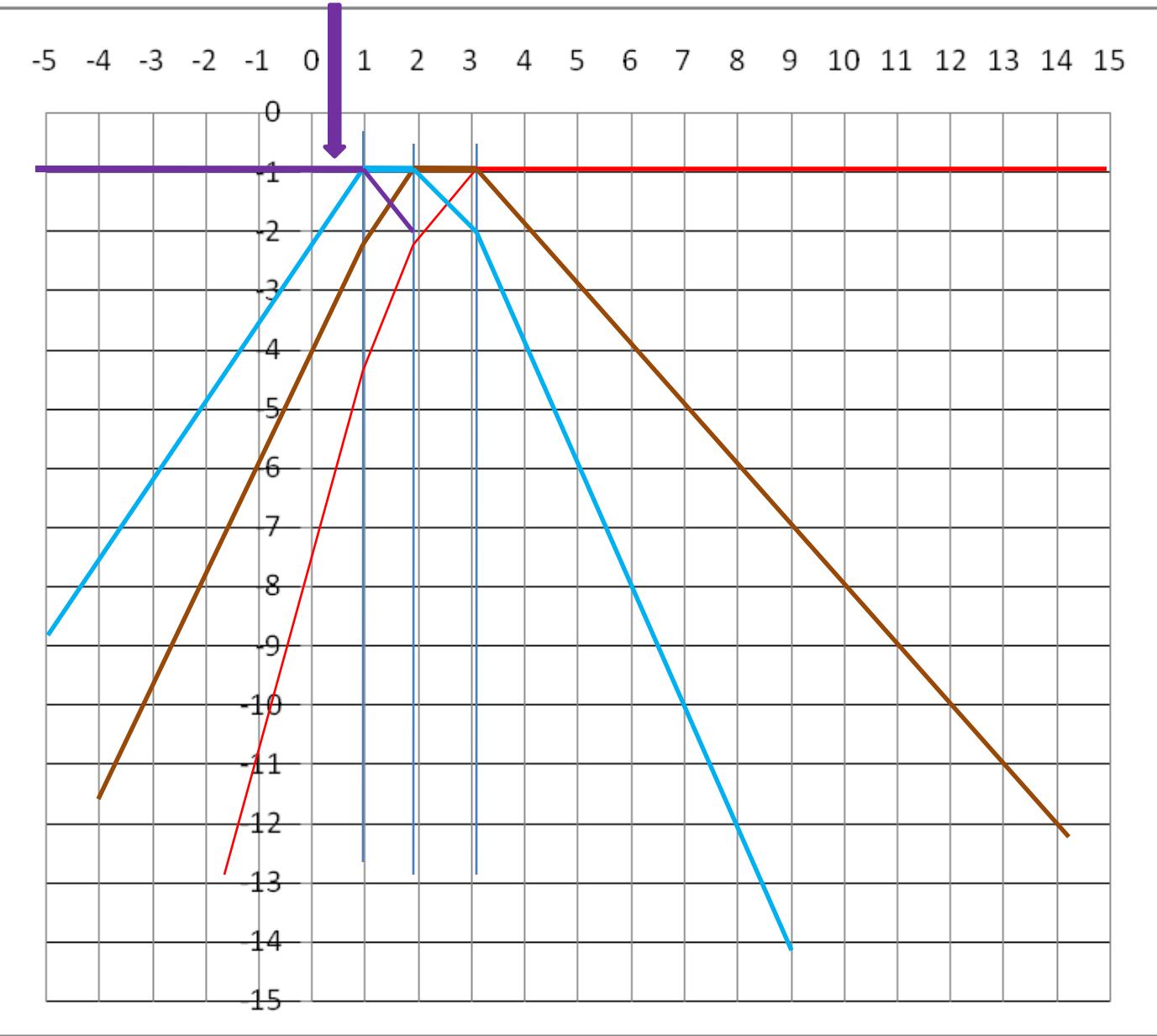
Log [AgCl₂⁻]



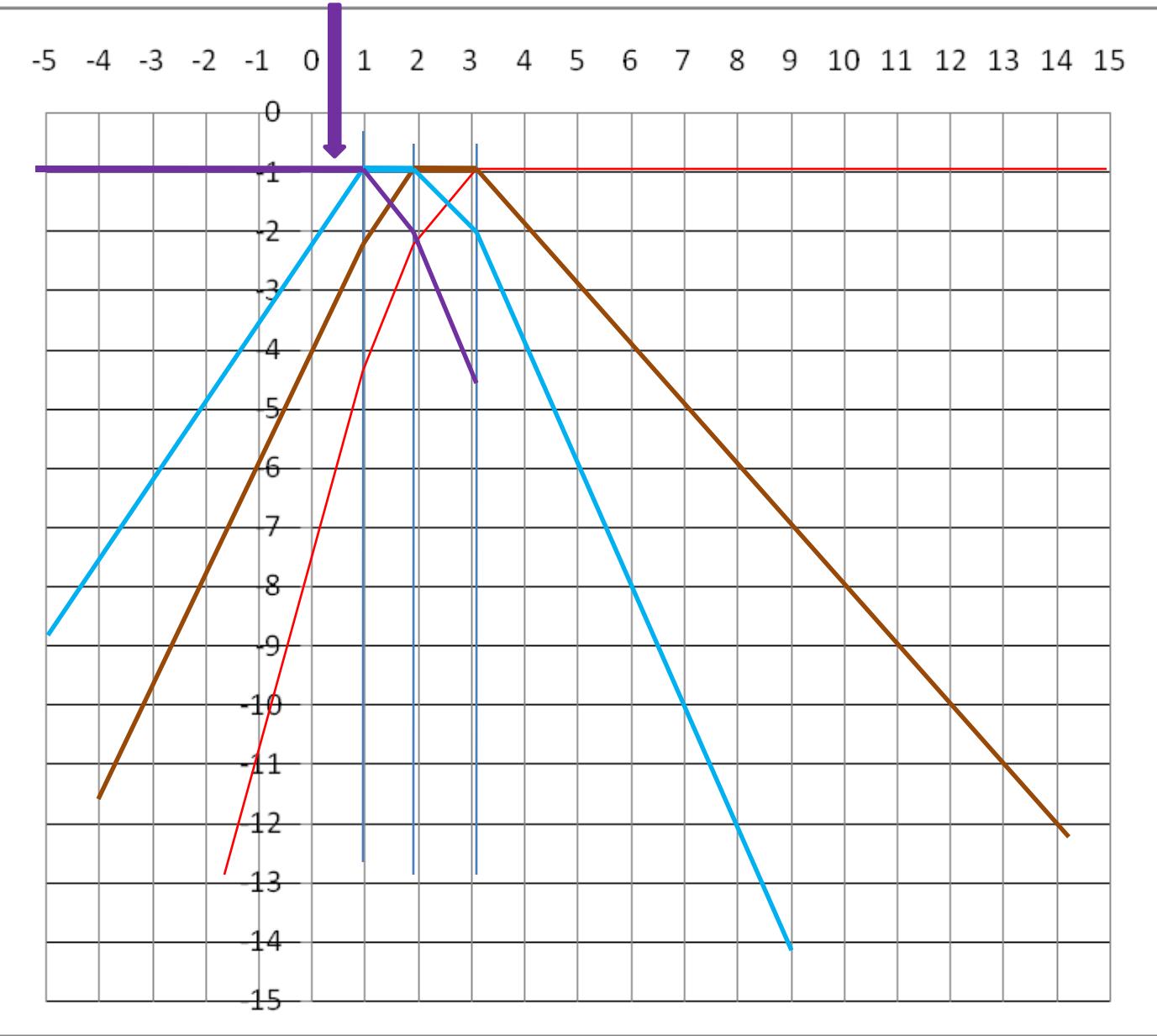
$\text{Log } [\text{AgCl}_3^{-2}]$



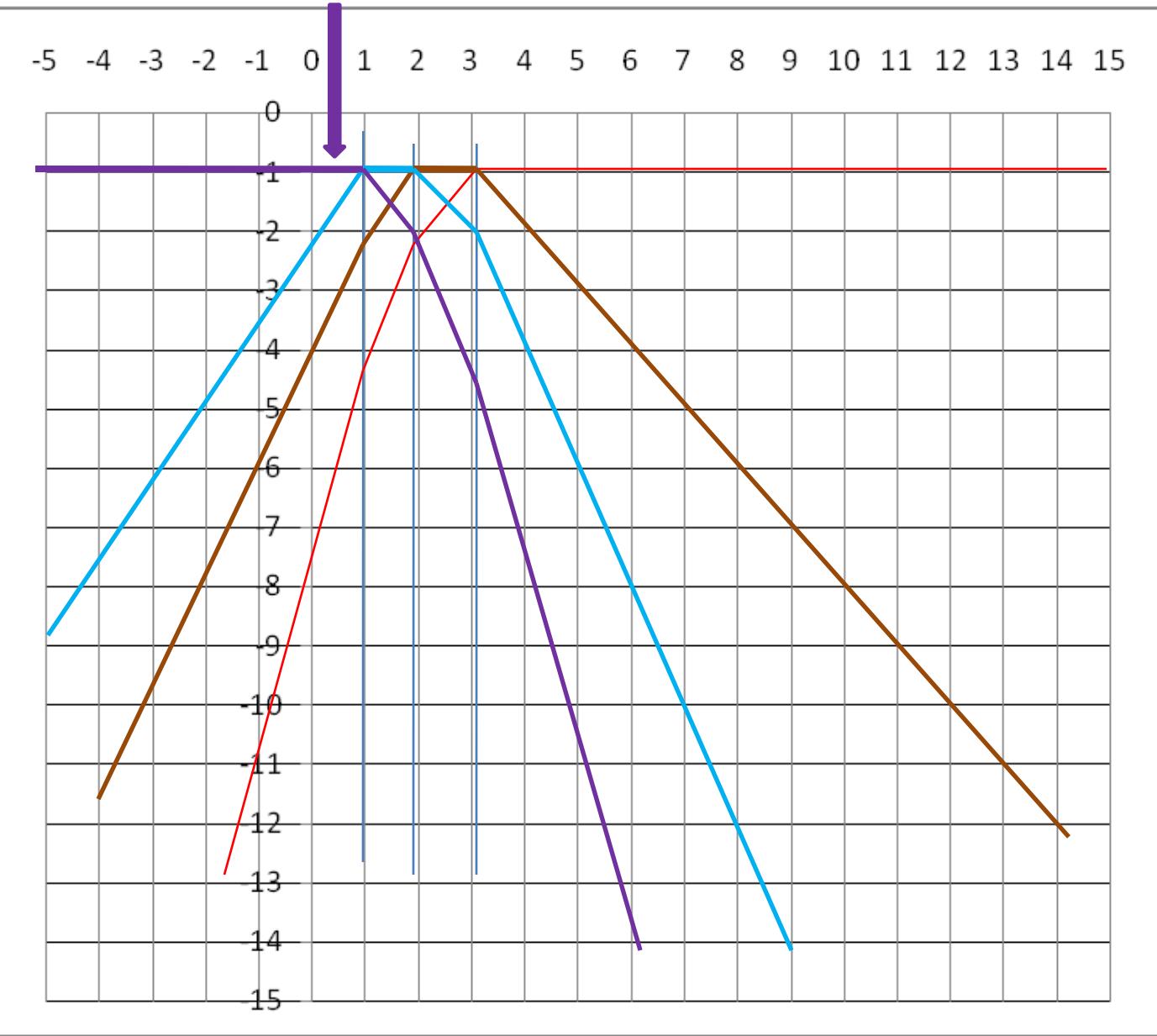
$\text{Log } [\text{AgCl}_3^{-2}]$



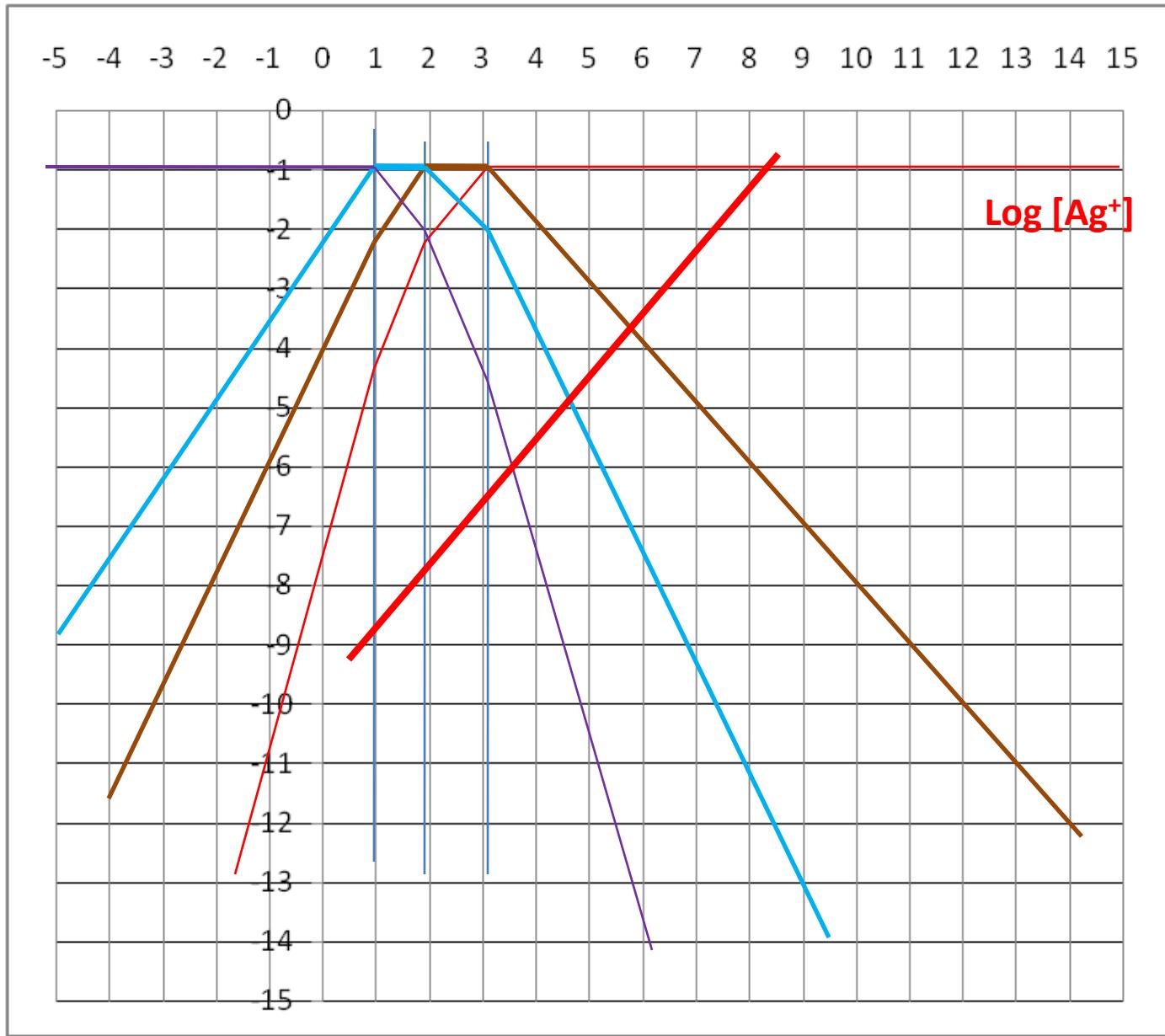
$\text{Log } [\text{AgCl}_3^{-2}]$



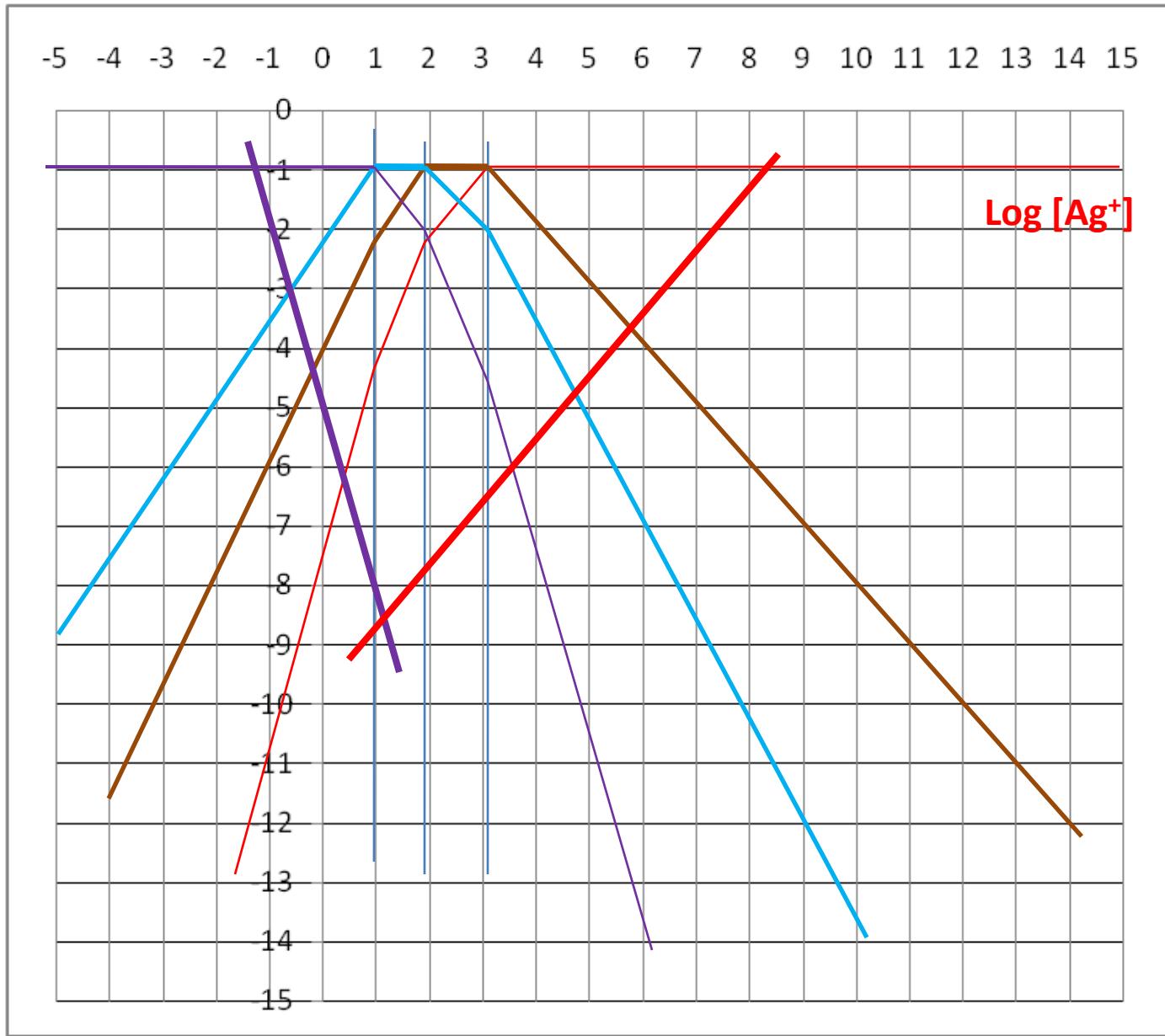
$\text{Log } [\text{AgCl}_3^{-2}]$



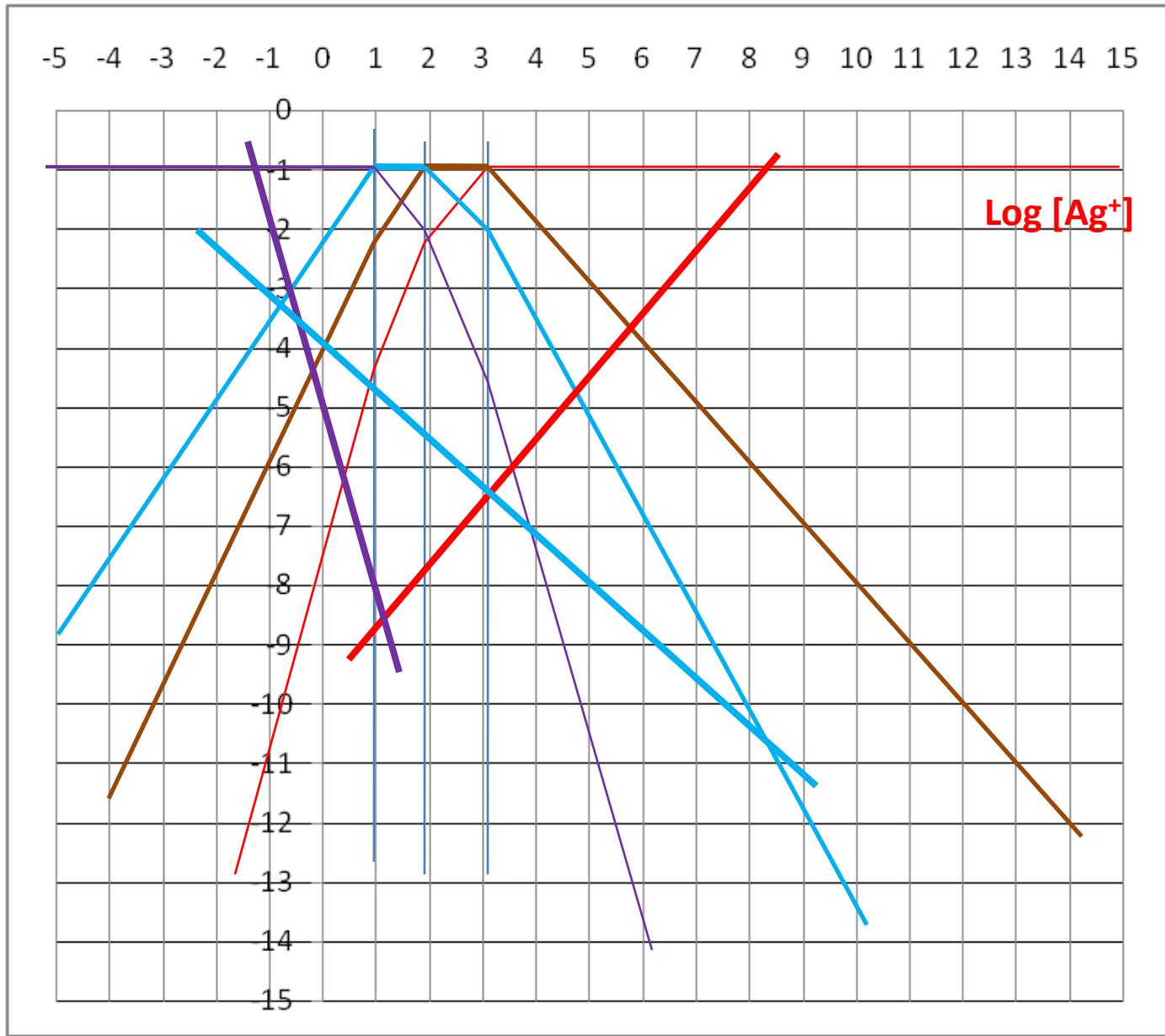
Transición $HOMO \leftrightarrow HETERO \leftrightarrow HOMO$:



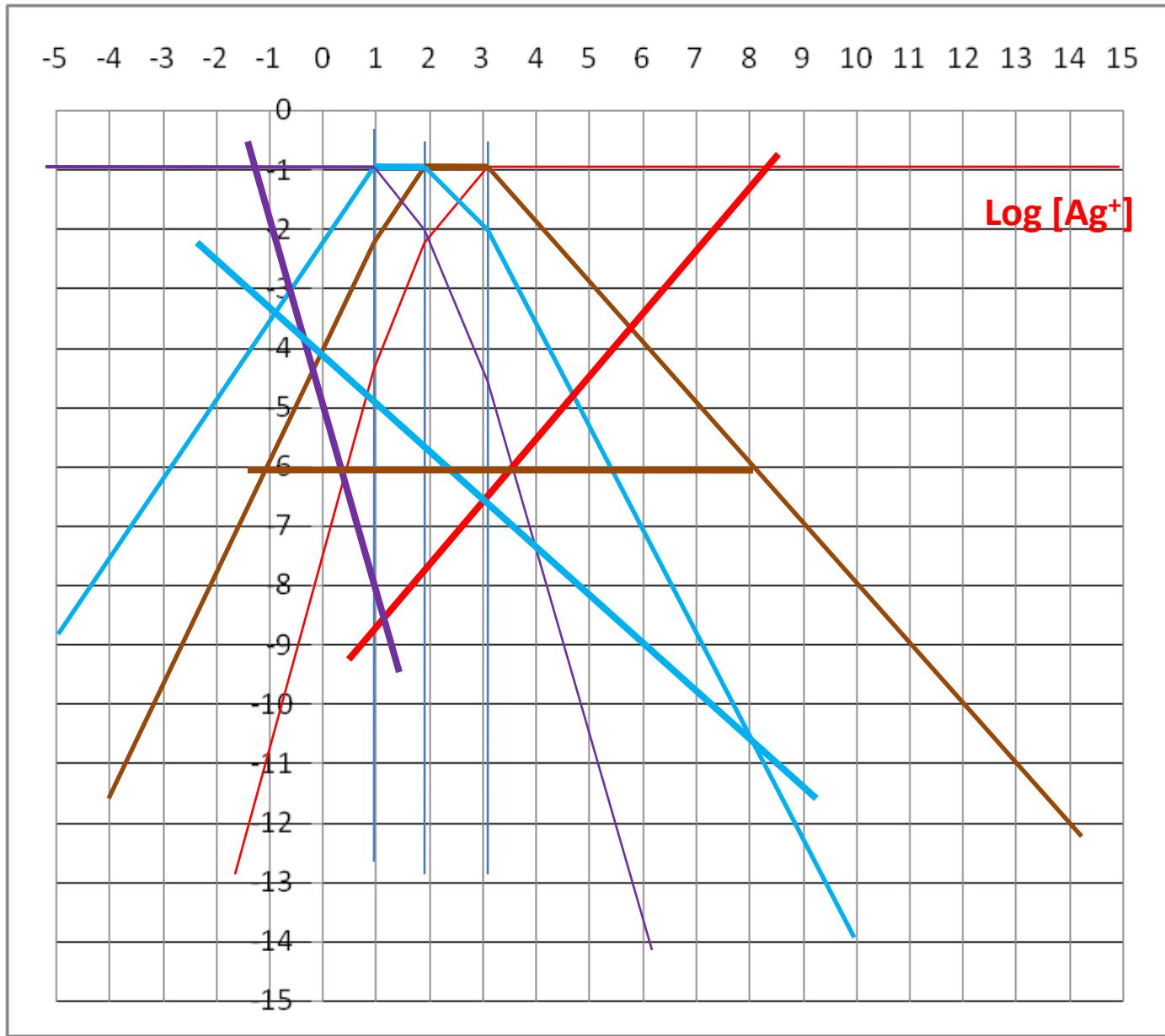
Transición HOMO \leftrightarrow HETERO \leftrightarrow HOMO:



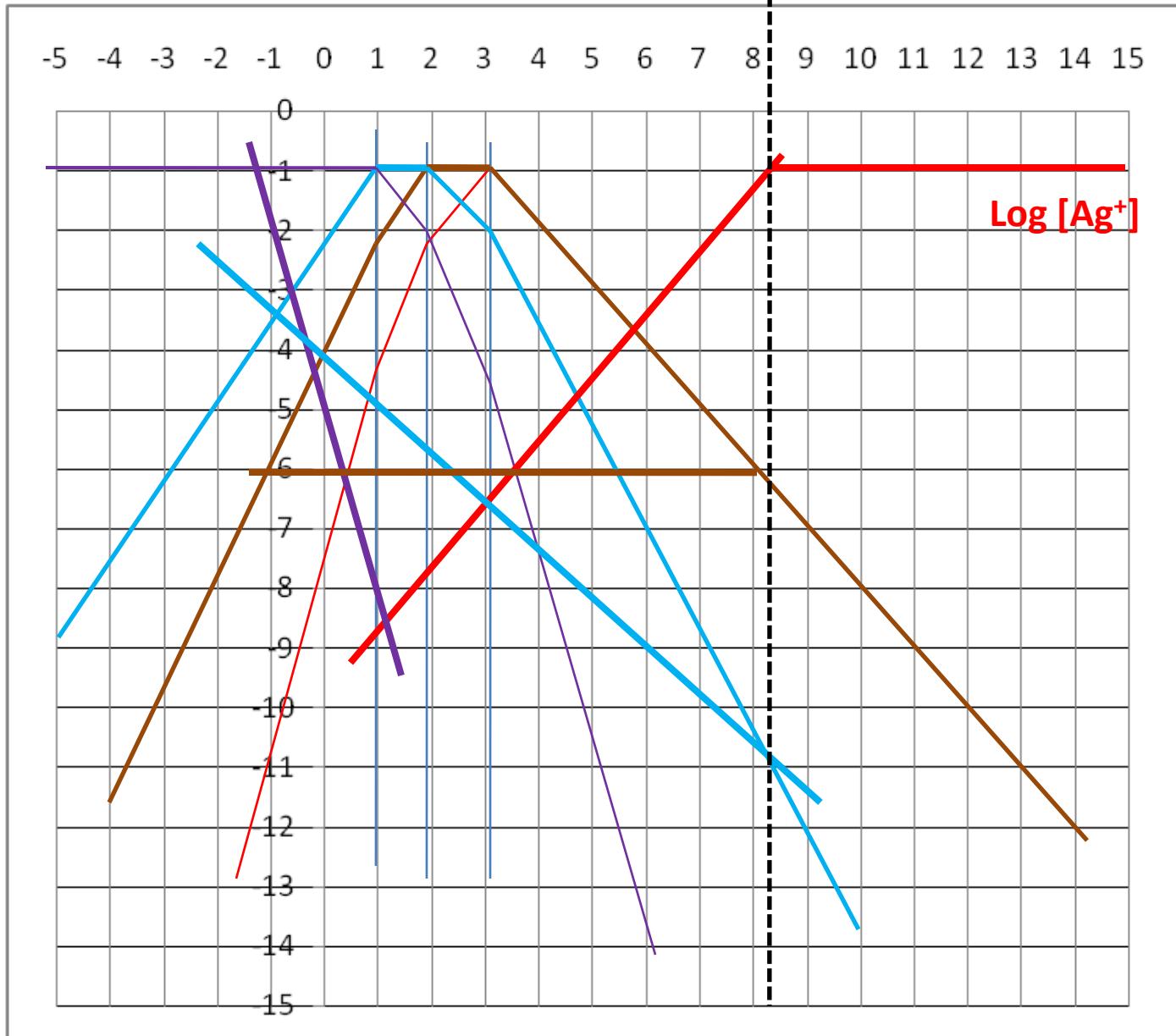
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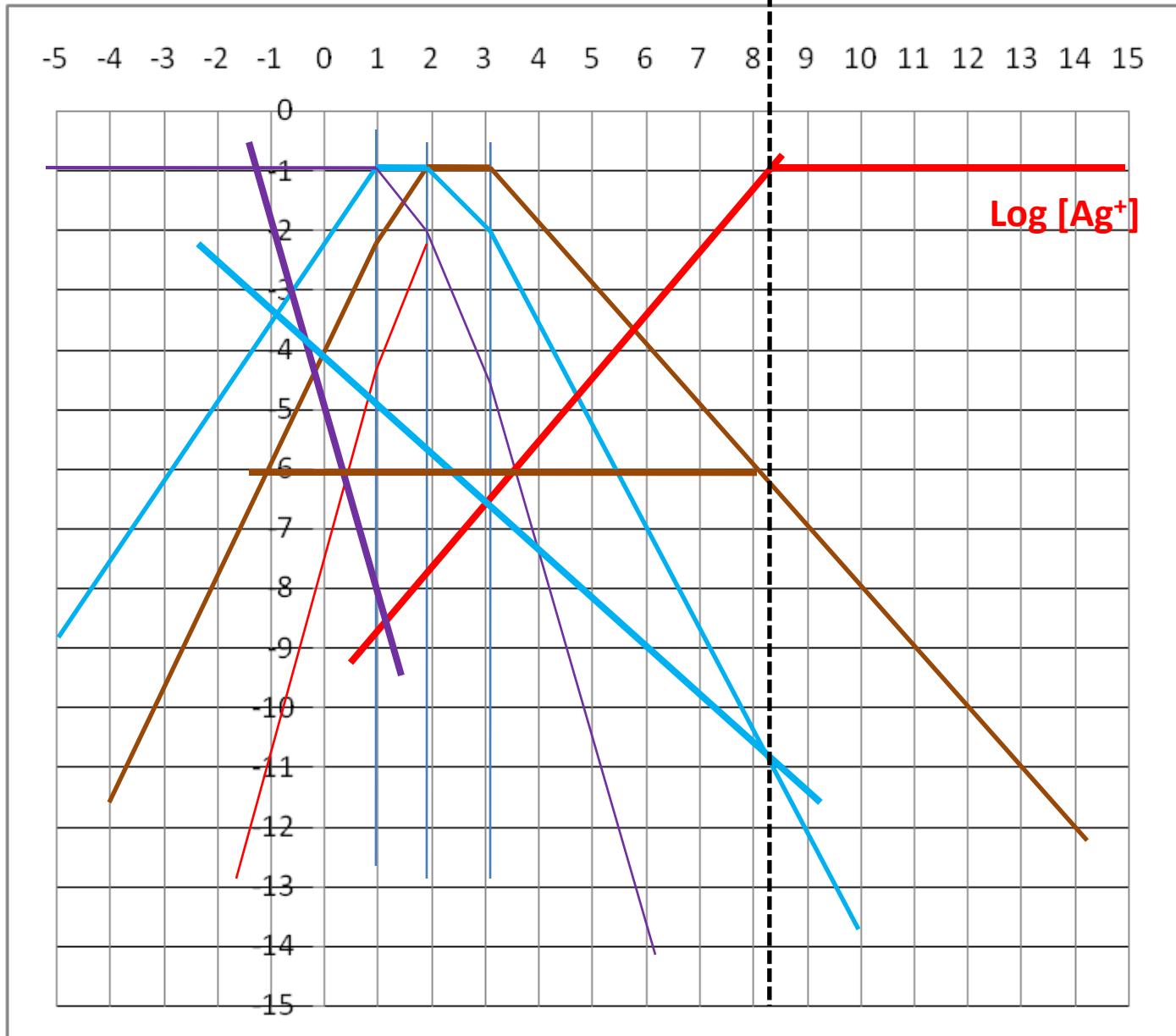
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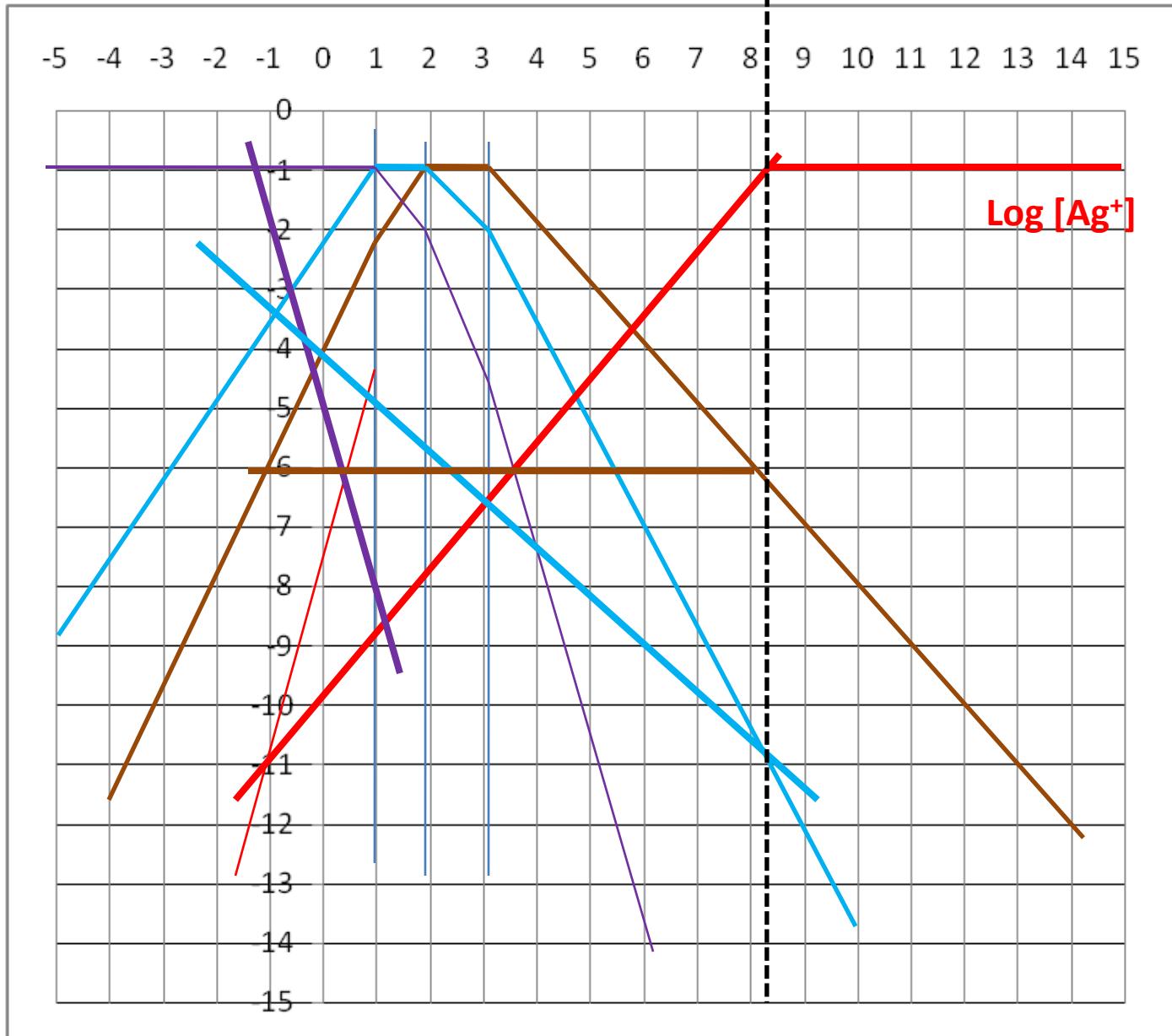
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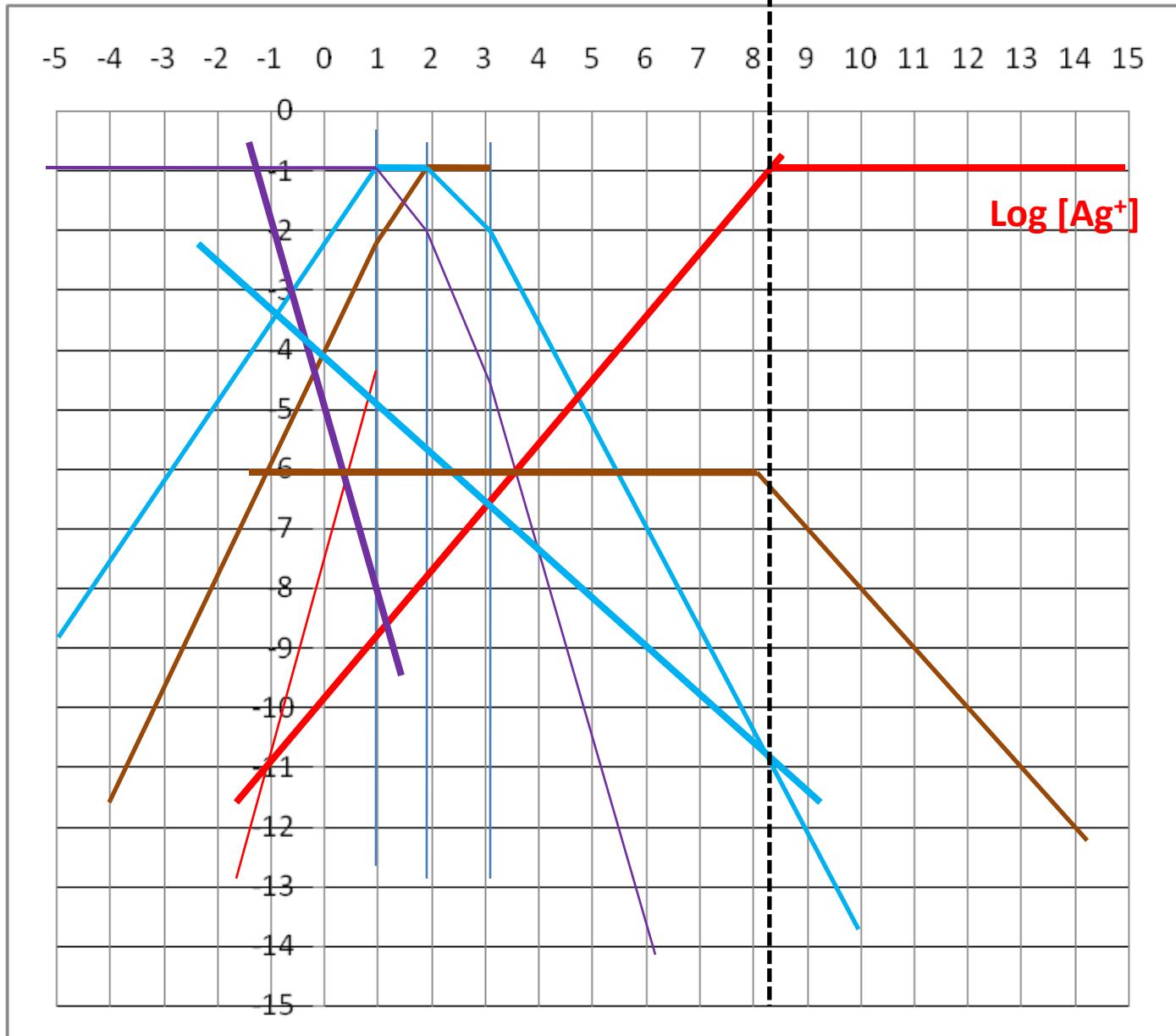
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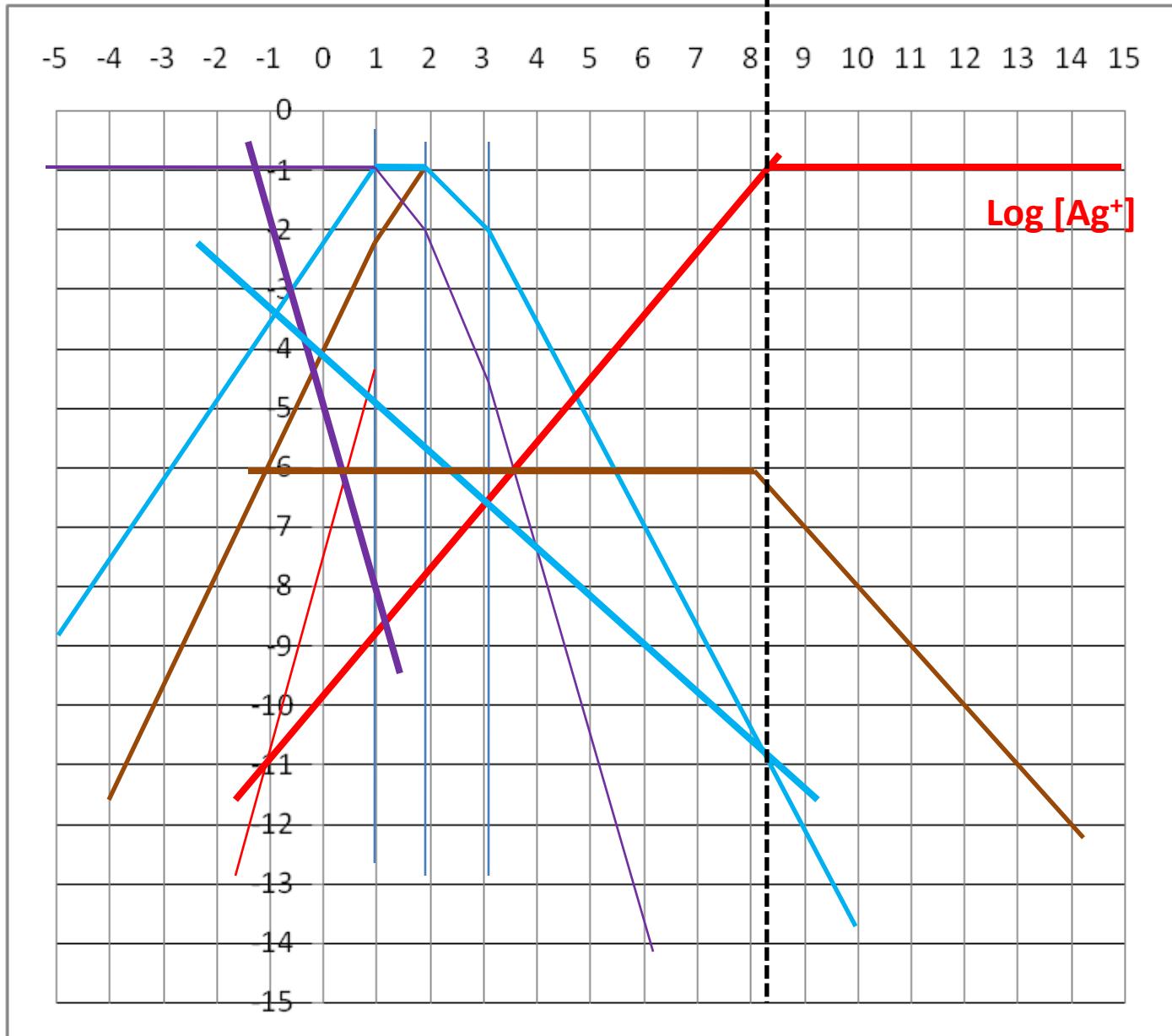
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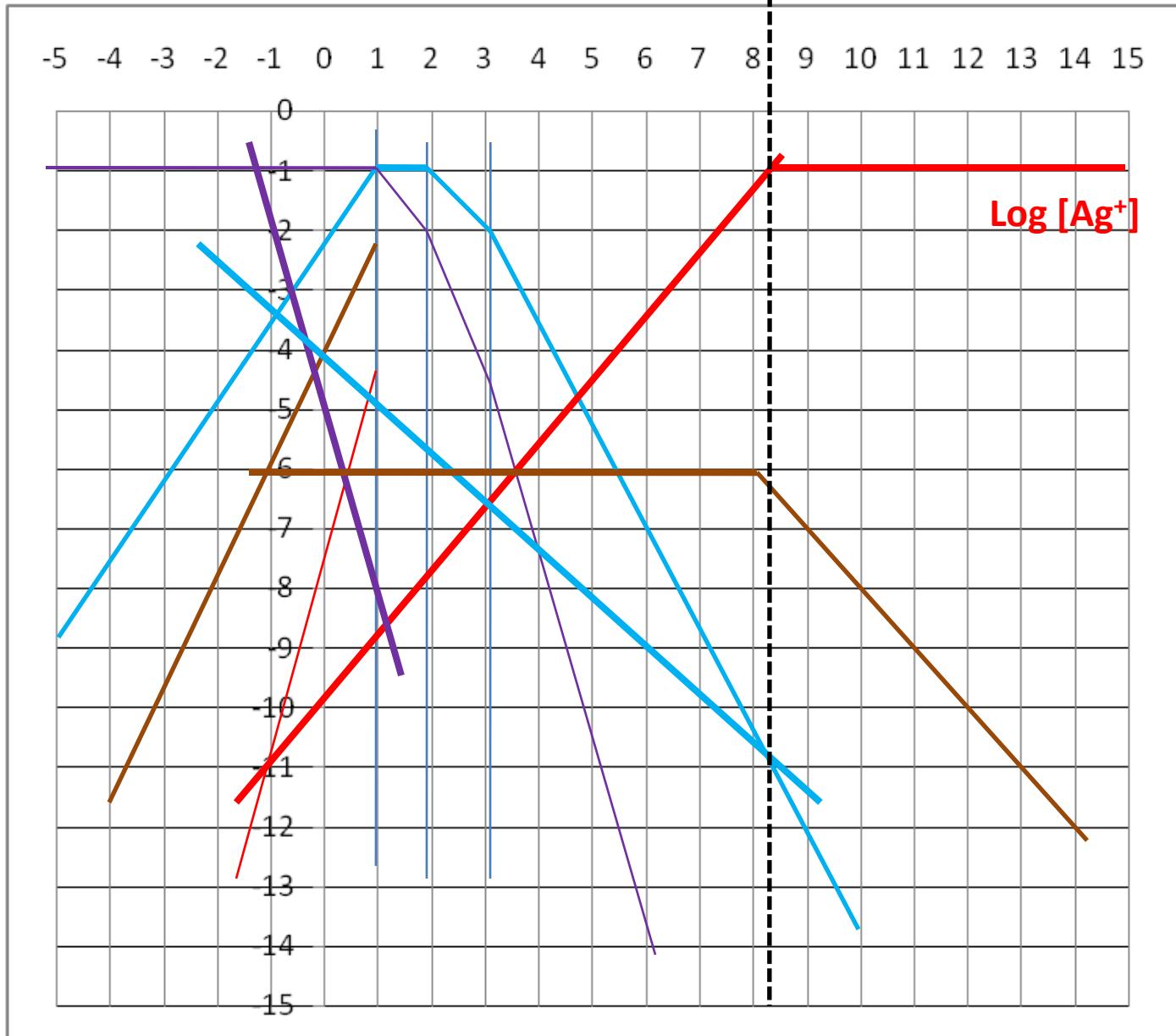
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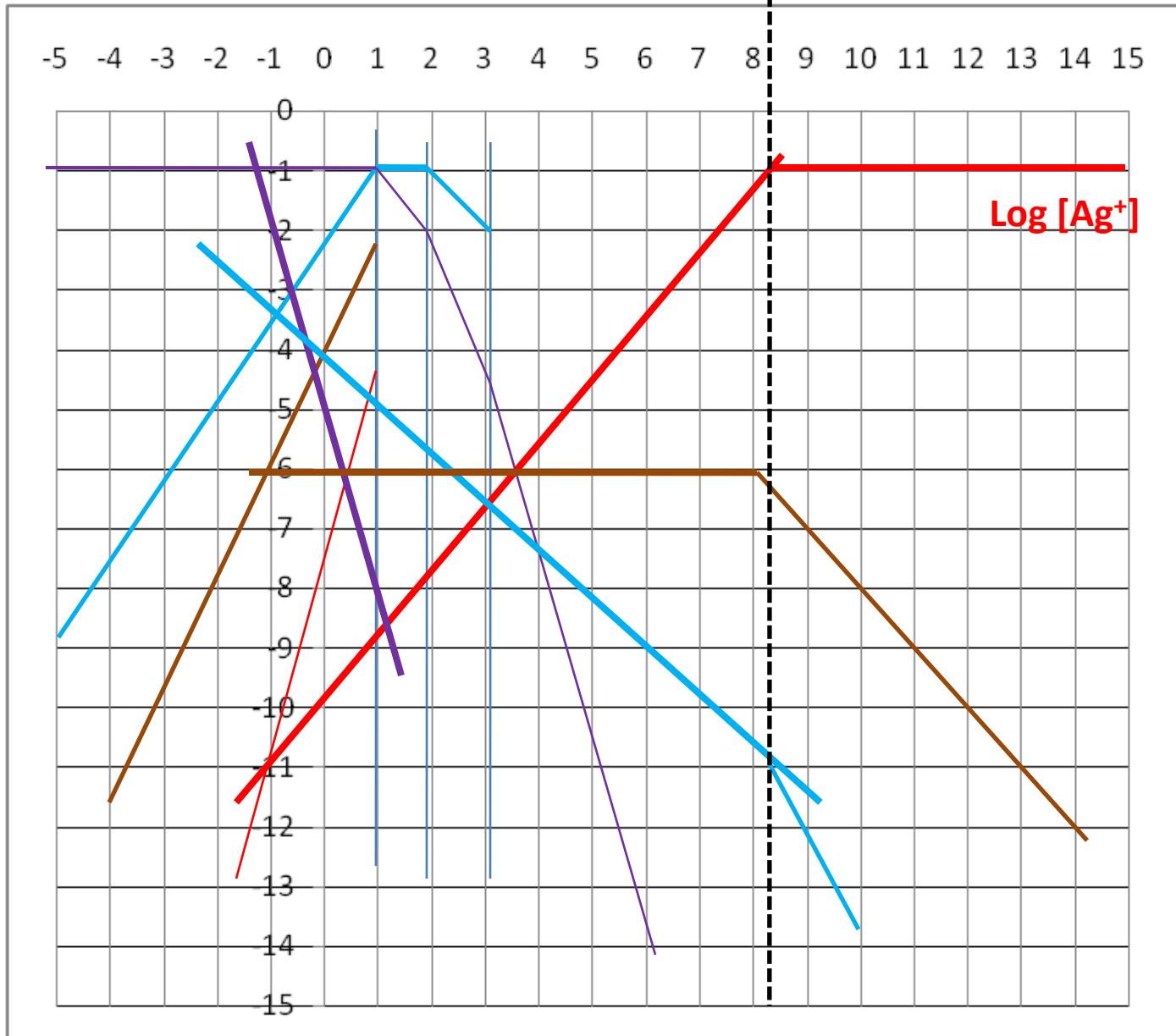
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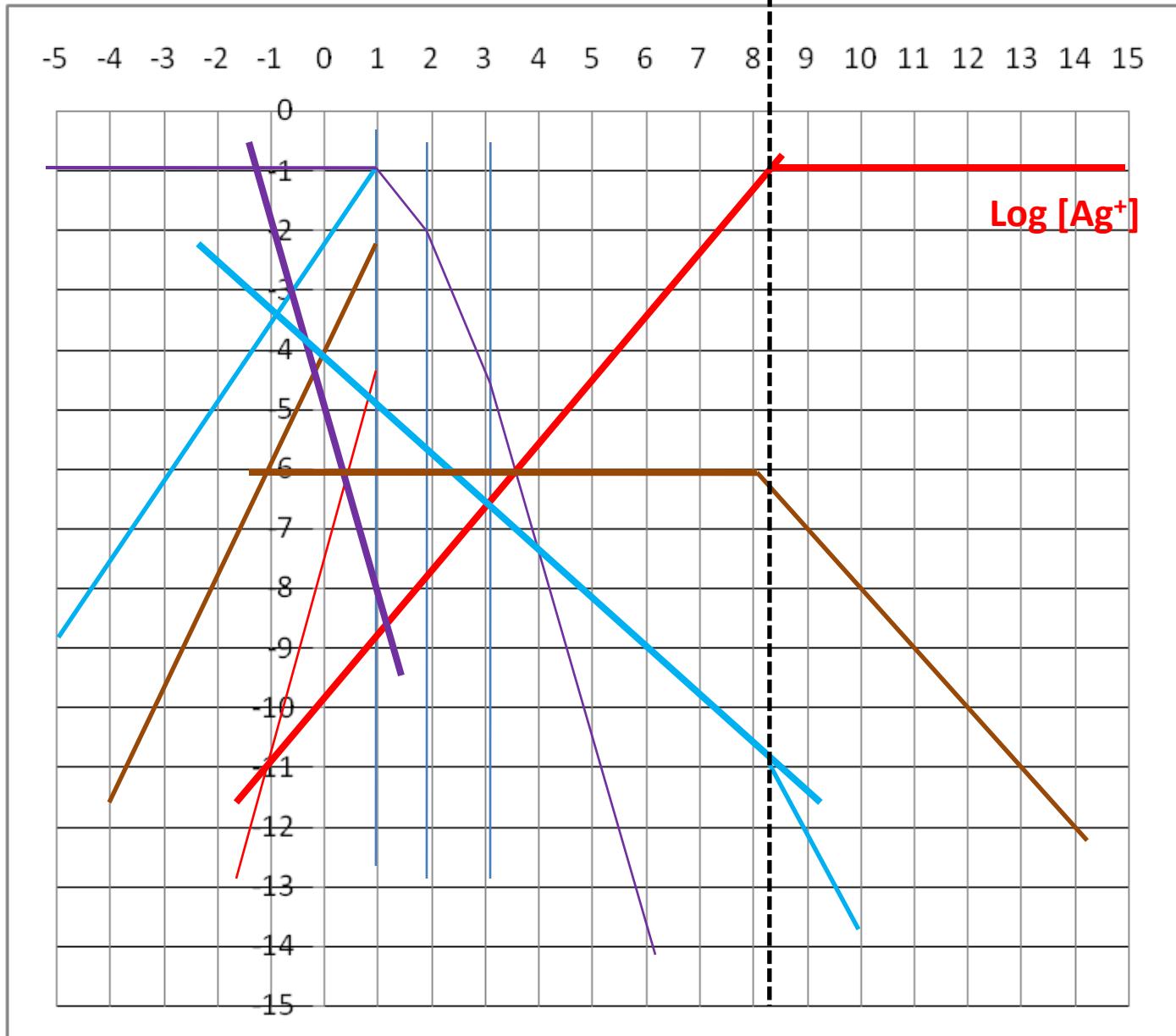
Transición $HOMO \leftrightarrow HETERO \leftrightarrow HOMO$:



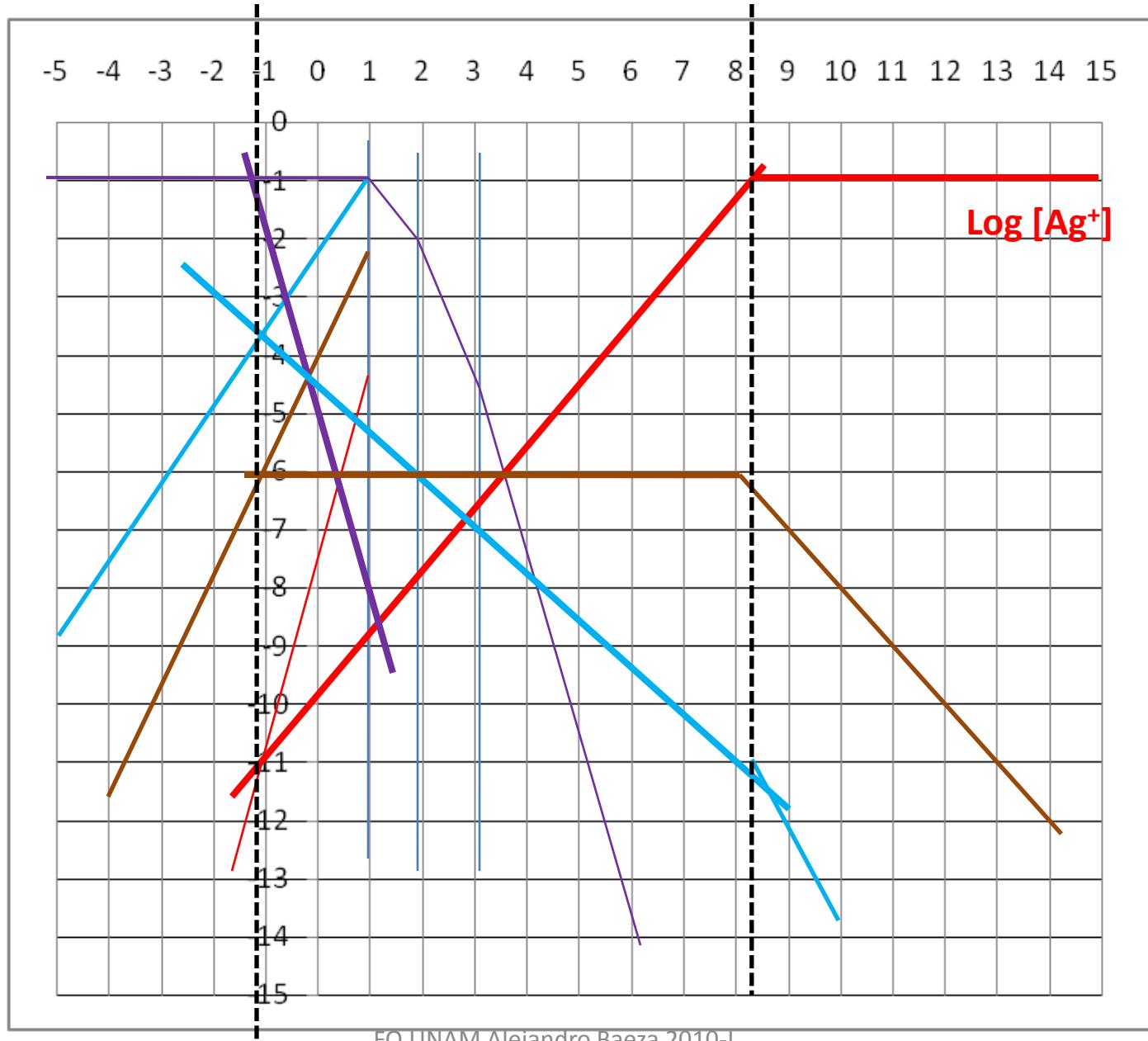
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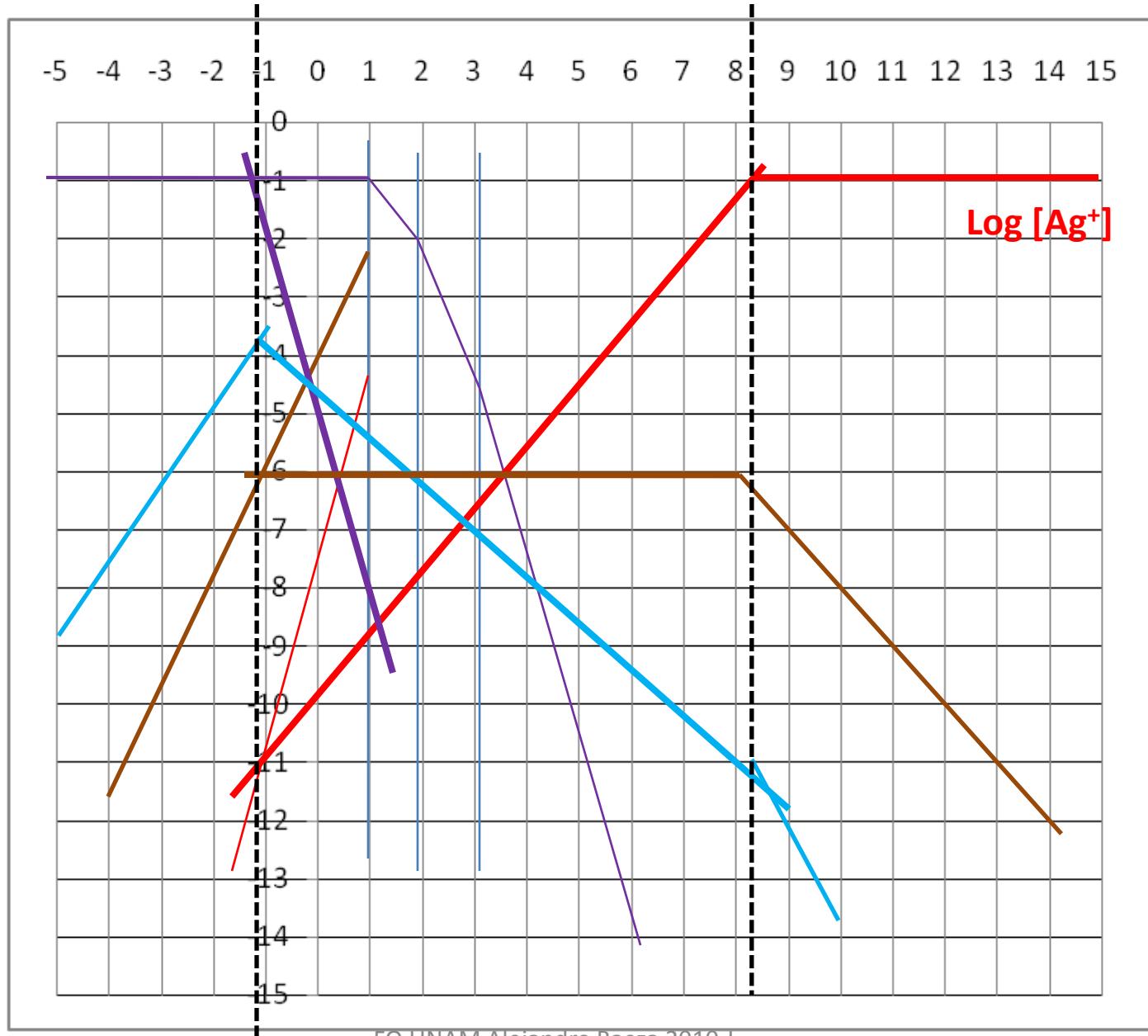
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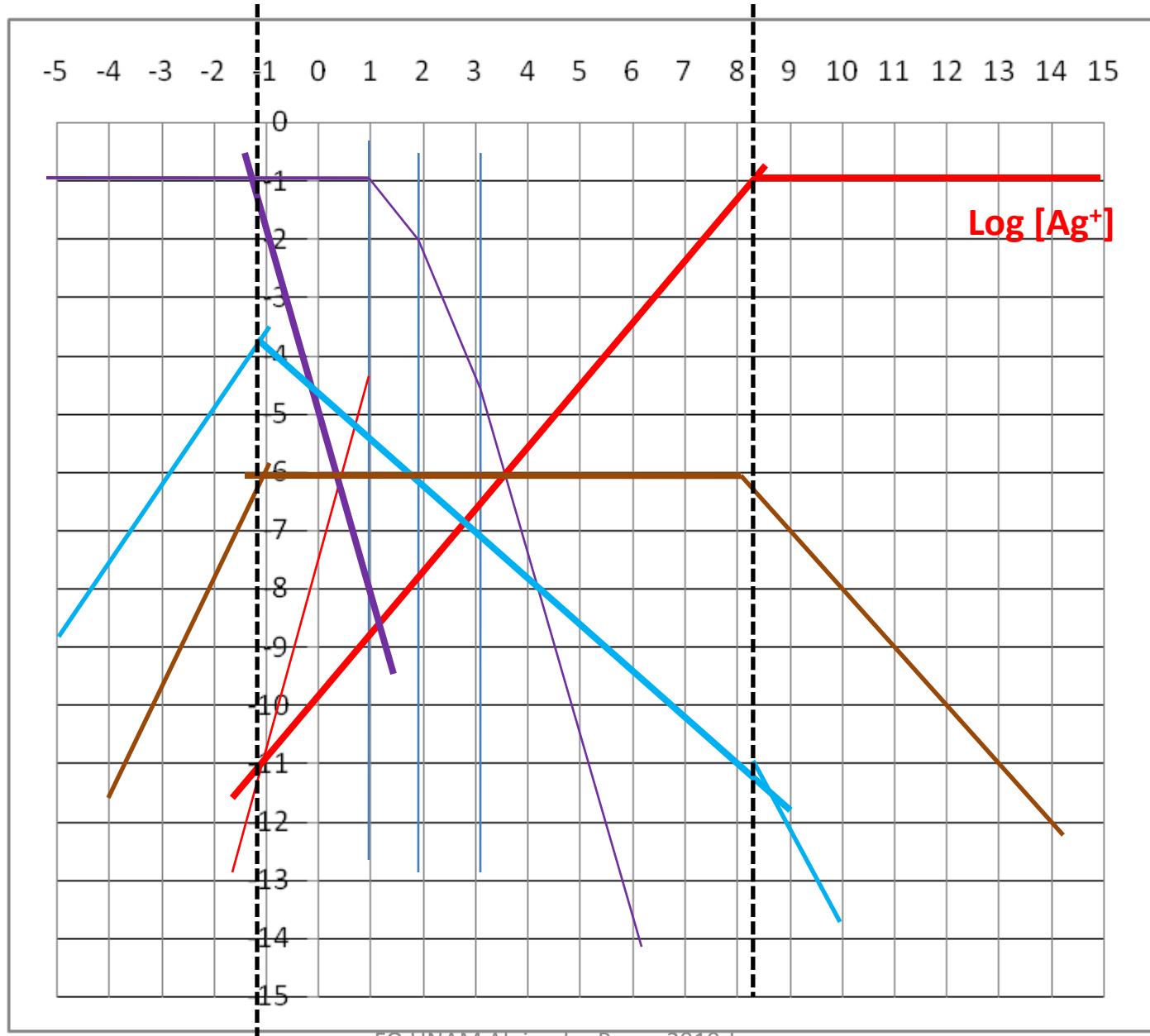
Transición $HOMO \leftrightarrow HETERO \leftrightarrow HOMO$:



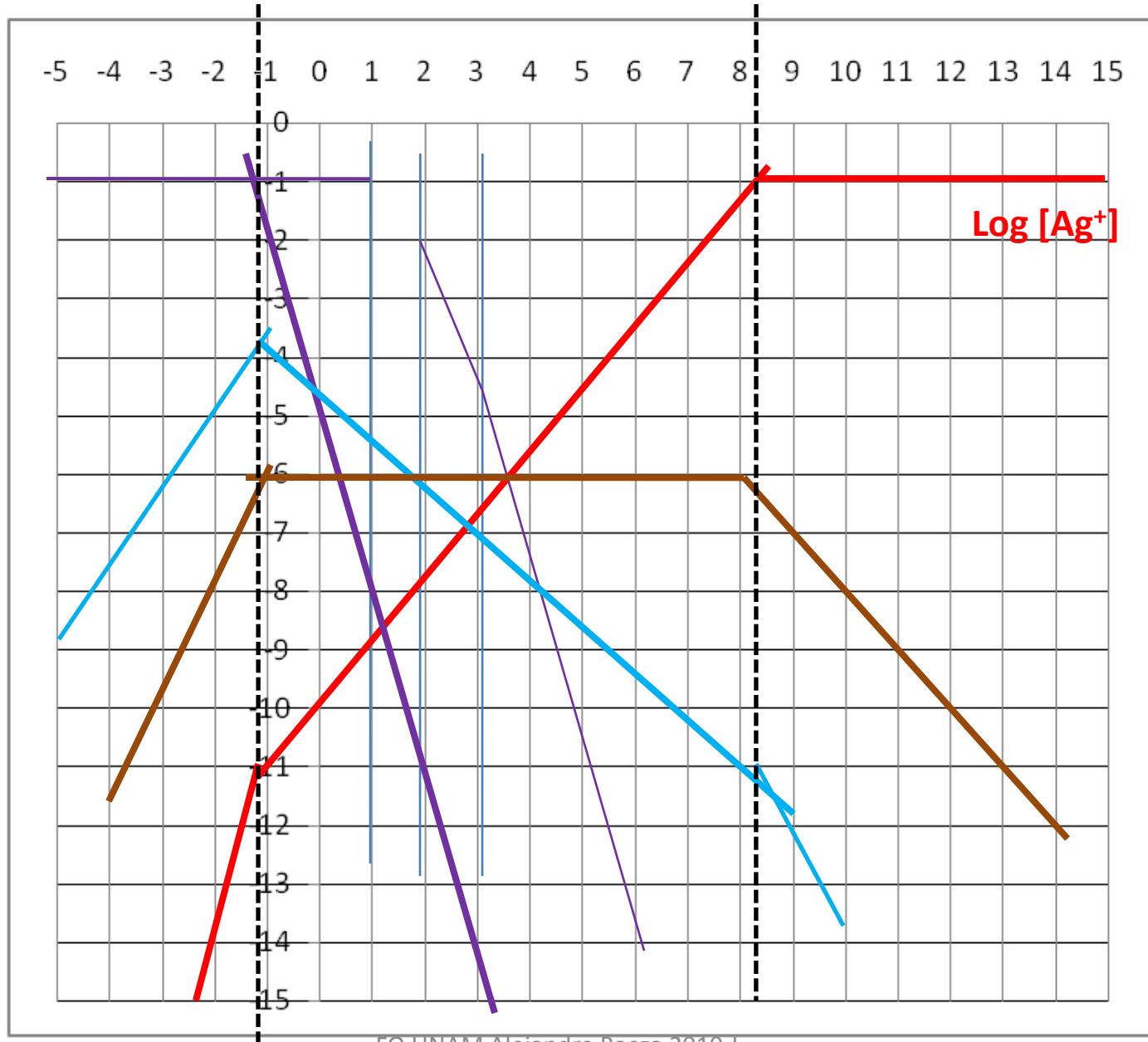
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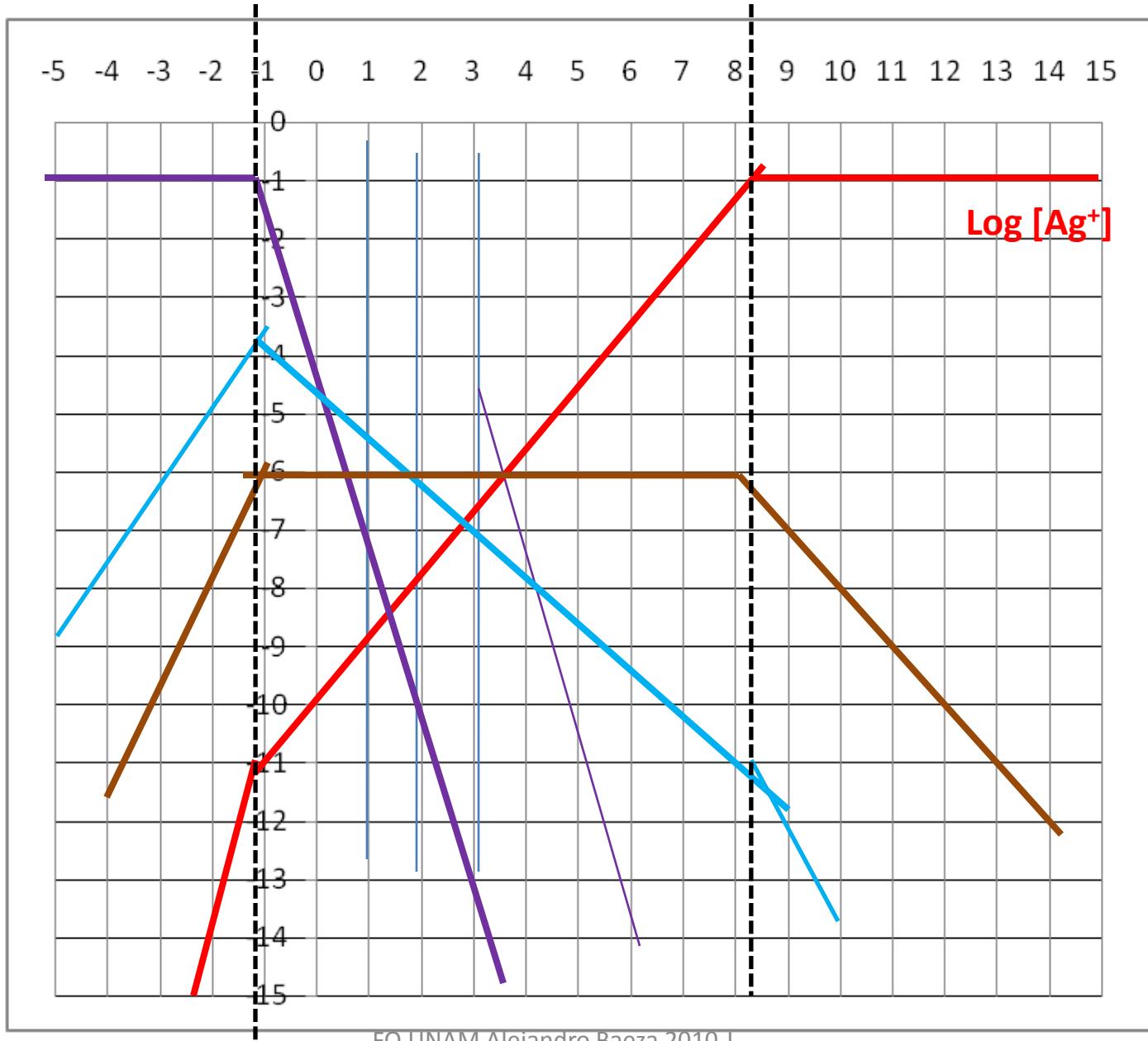
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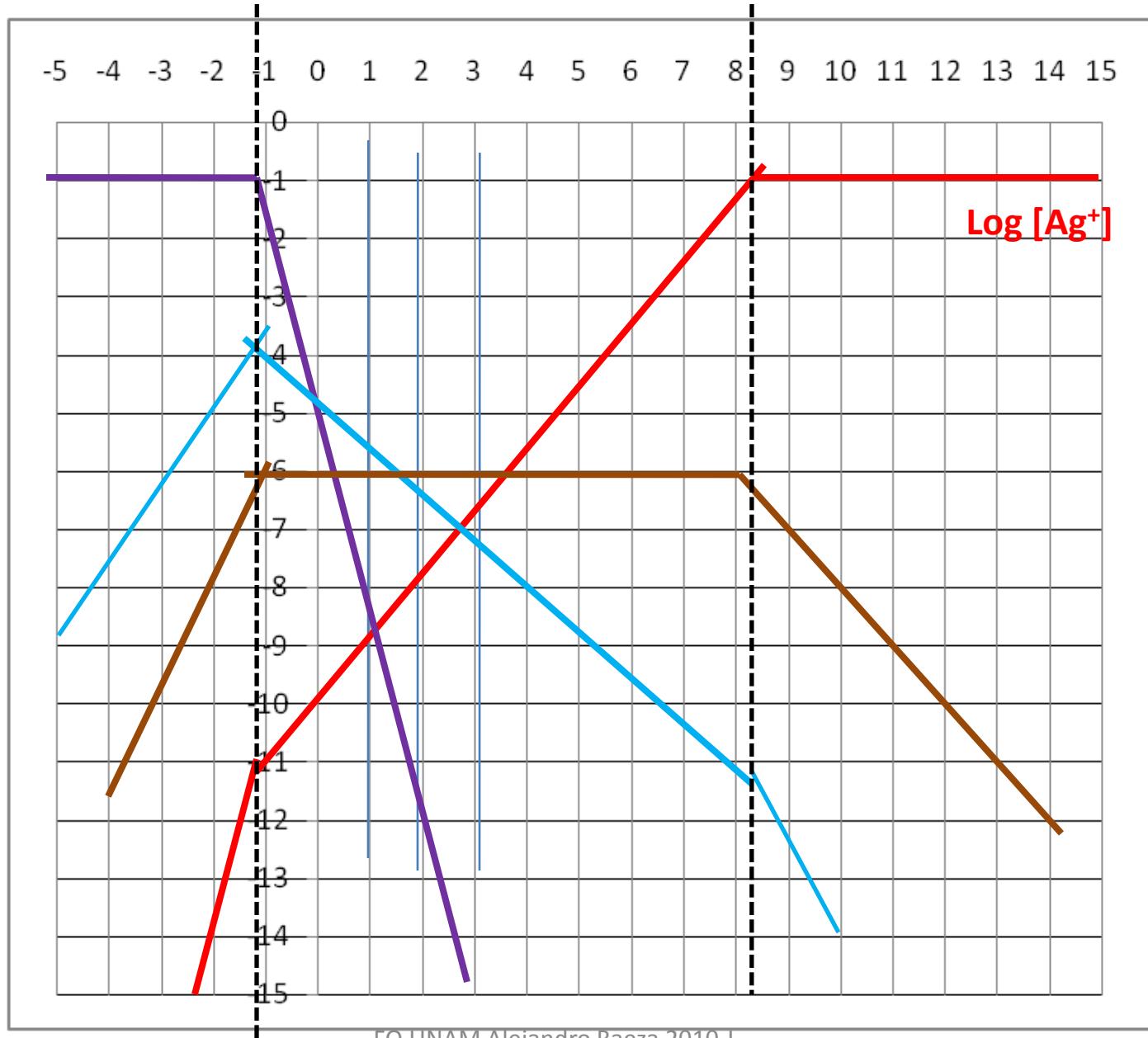
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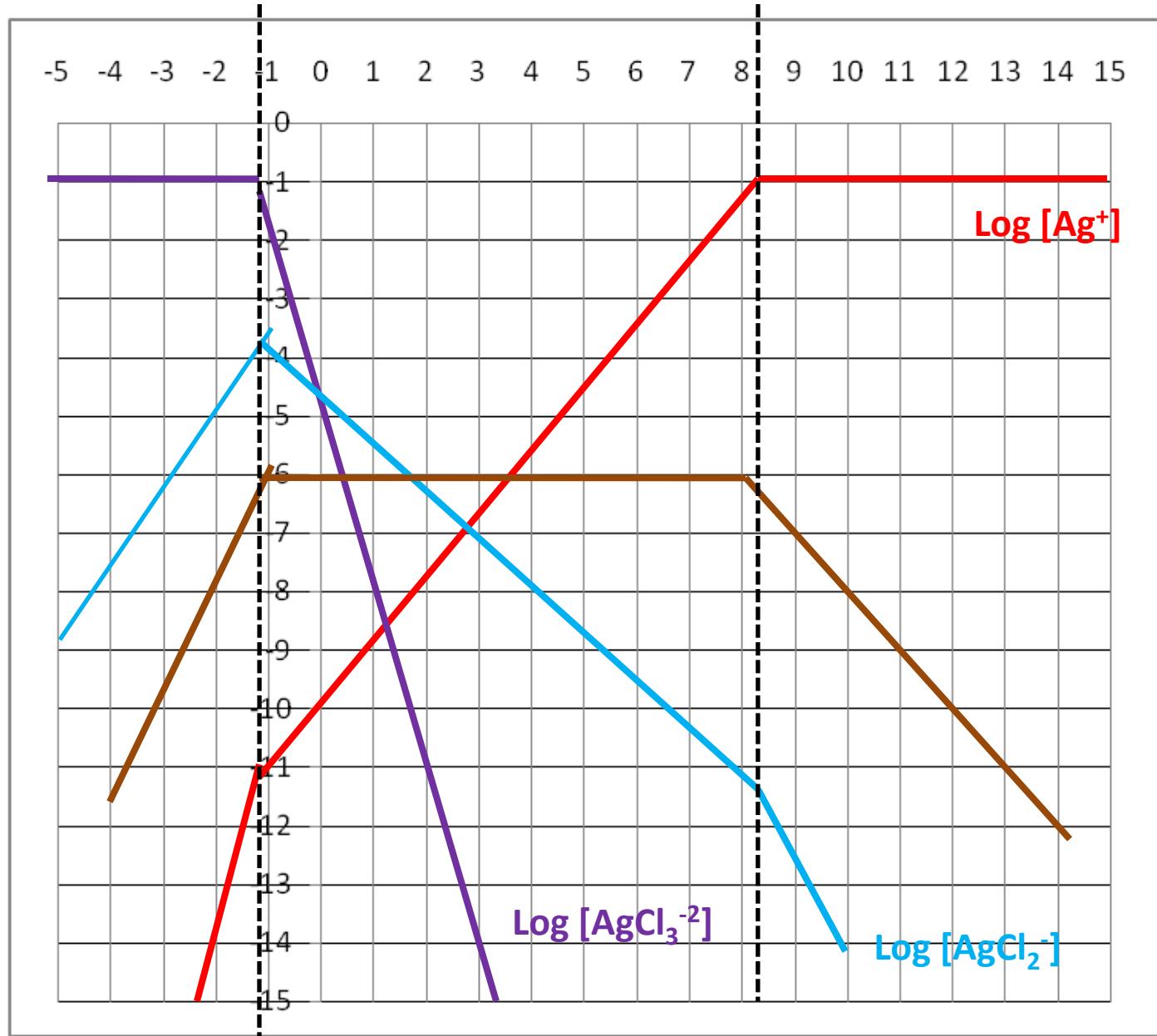


Transición

HOMO

HETERO

↔ HOMO:



Transición

HOMO

HETERO

↔ HOMO:

