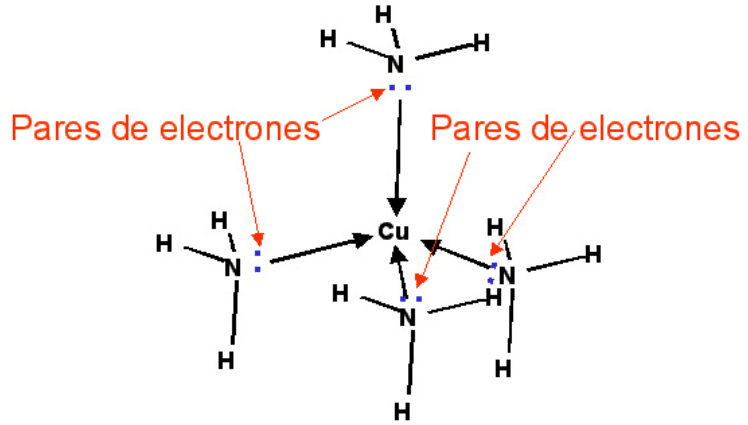
QA III
DPEG
Cu(II)/ $(NH_3)_n$



2)	Cu(II)	NH_3	$\log\beta(n)$:(*1*)4;(*2*)8;(*3*)11;(*4*)13 $pKa_{H(i)L}$:(*1*)9;pKs: 18

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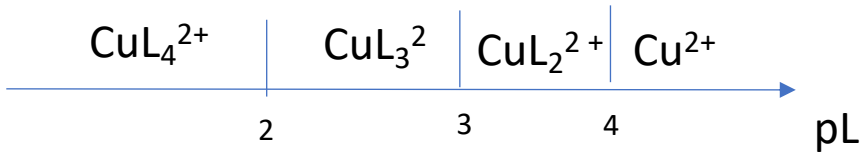
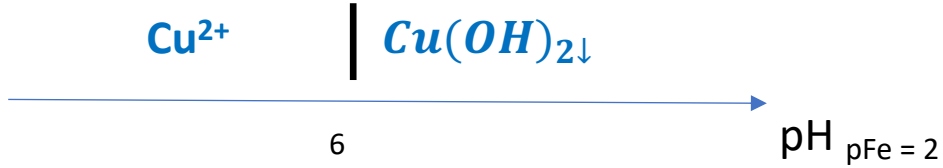


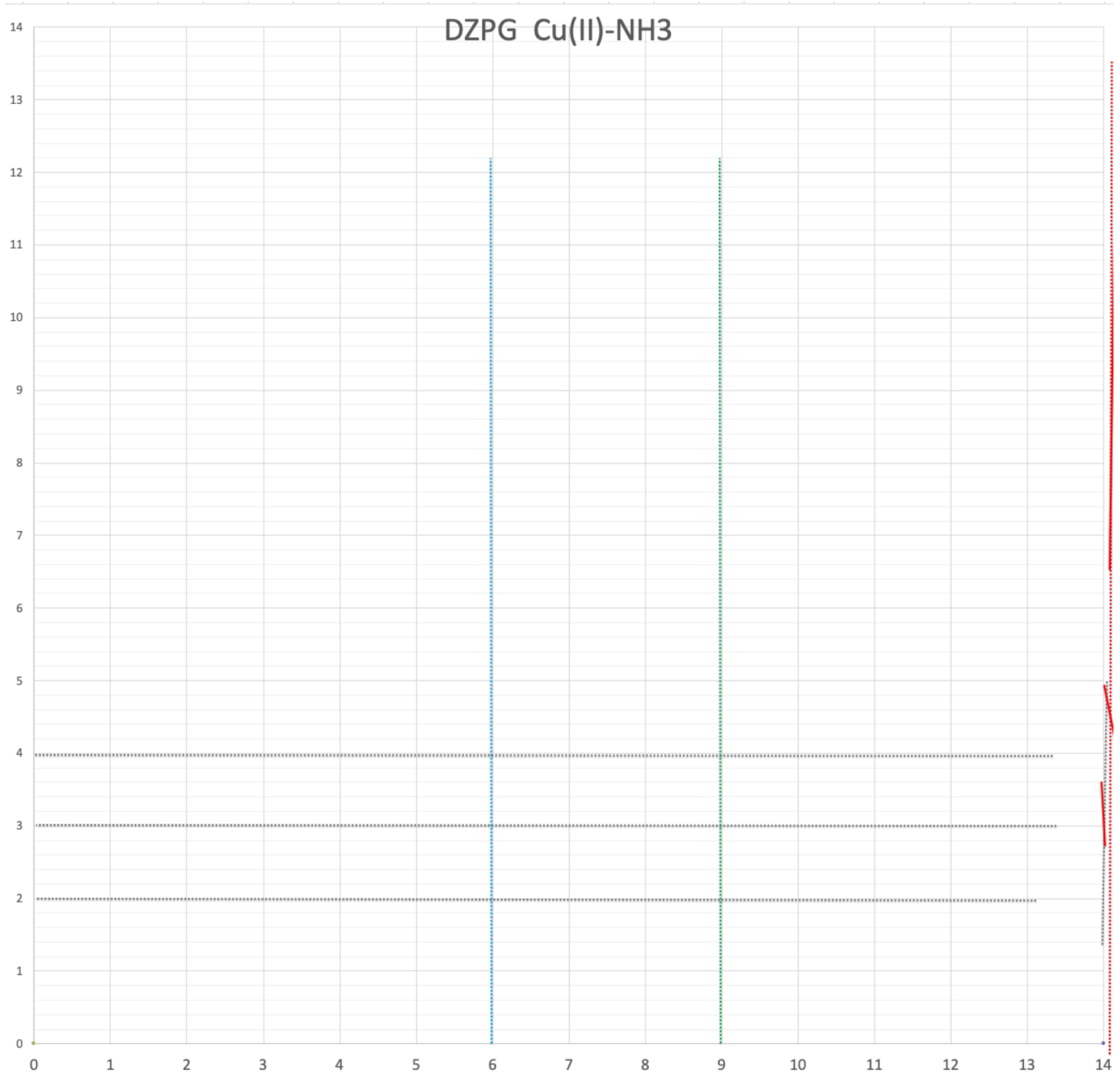
Log β_n= pK_1+ pK_2 + …. + pK_n

DUZP protonación ligante:

DUZP complejos hidróxido:

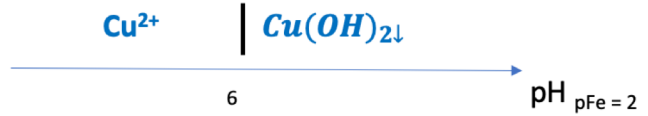


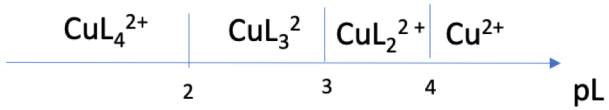
PASO 1:



DUZP protonación ligante:

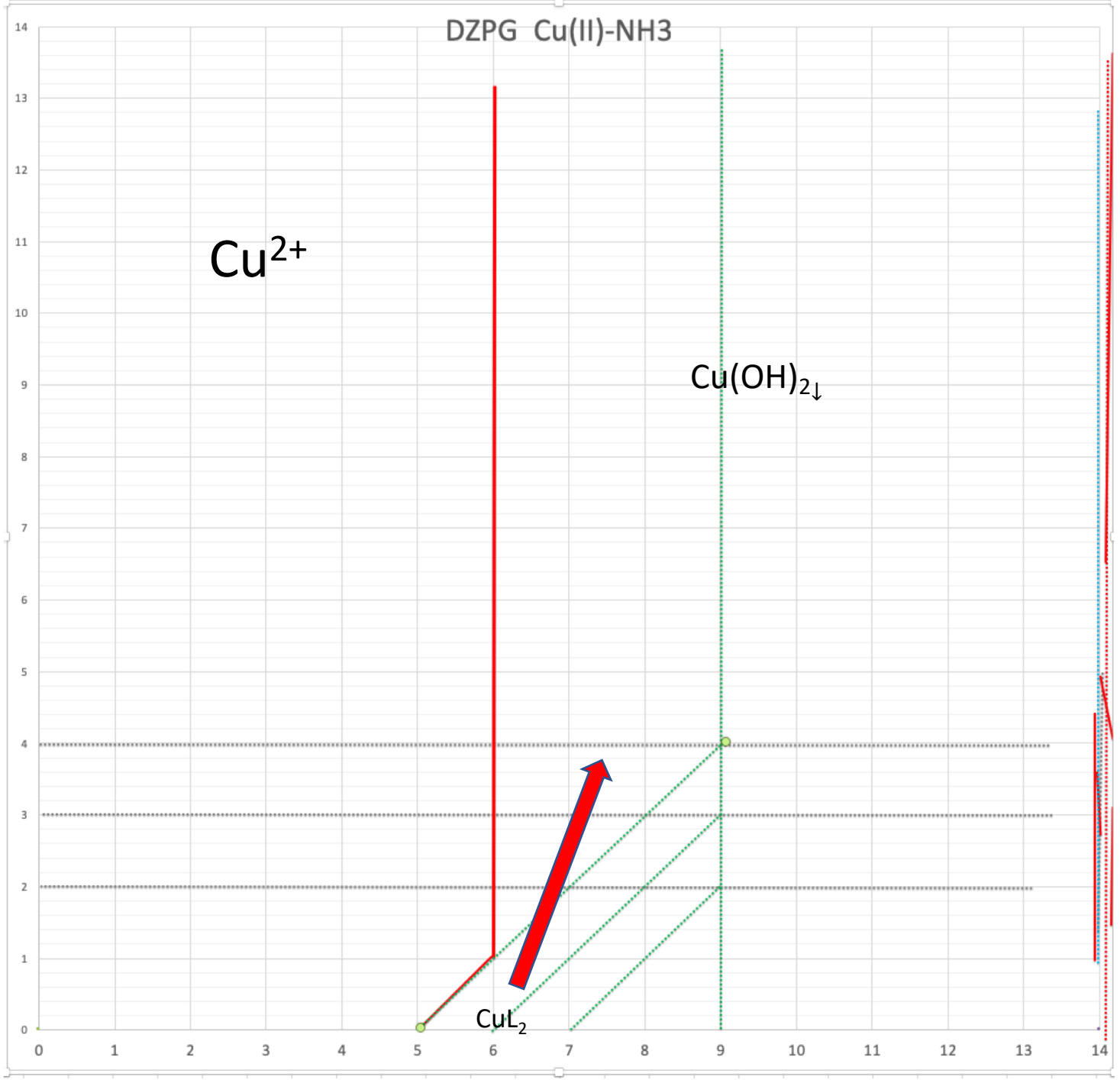
DUZP complejos hidróxido:





PASO 2:

PASO 3:



$CuL_2 + 2H_2O \rightleftharpoons Cu(OH)_{2\downarrow} + 2HL$

3L´: 0H

m = 0

PASO 4:

CuL_2

$Cu(OH)_{2\downarrow}$

$CuL_2 + 2H_2O \rightleftharpoons Cu(OH)_{2\downarrow} + 2HL$

3L´: 0H

m = 0

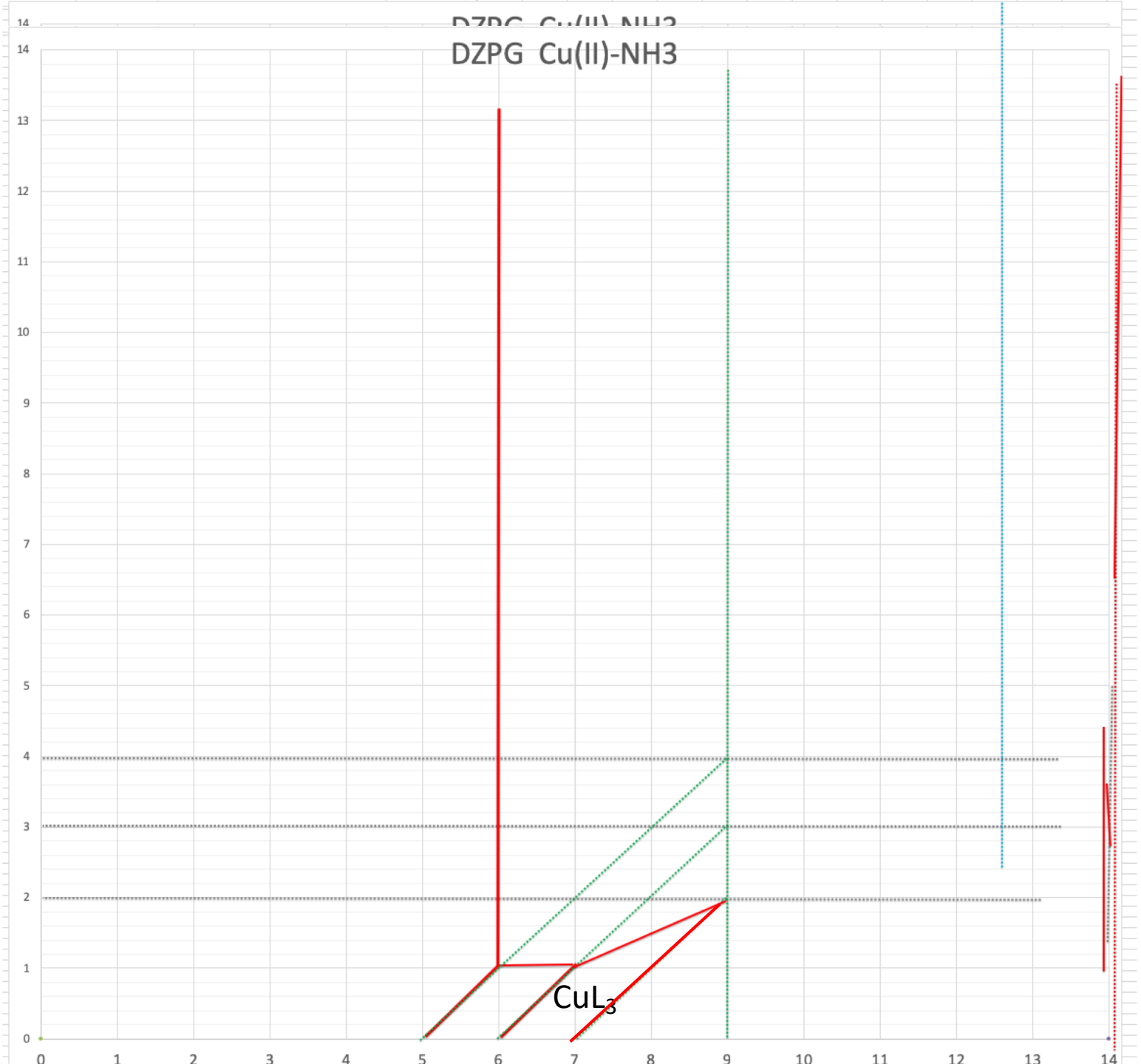
PASO 5:

$CuL_3 + 2H_2O + H \rightleftharpoons Cu(OH)_{2\downarrow} + 3HL$

3L´: 1H

m = +1/3

PASO 6:

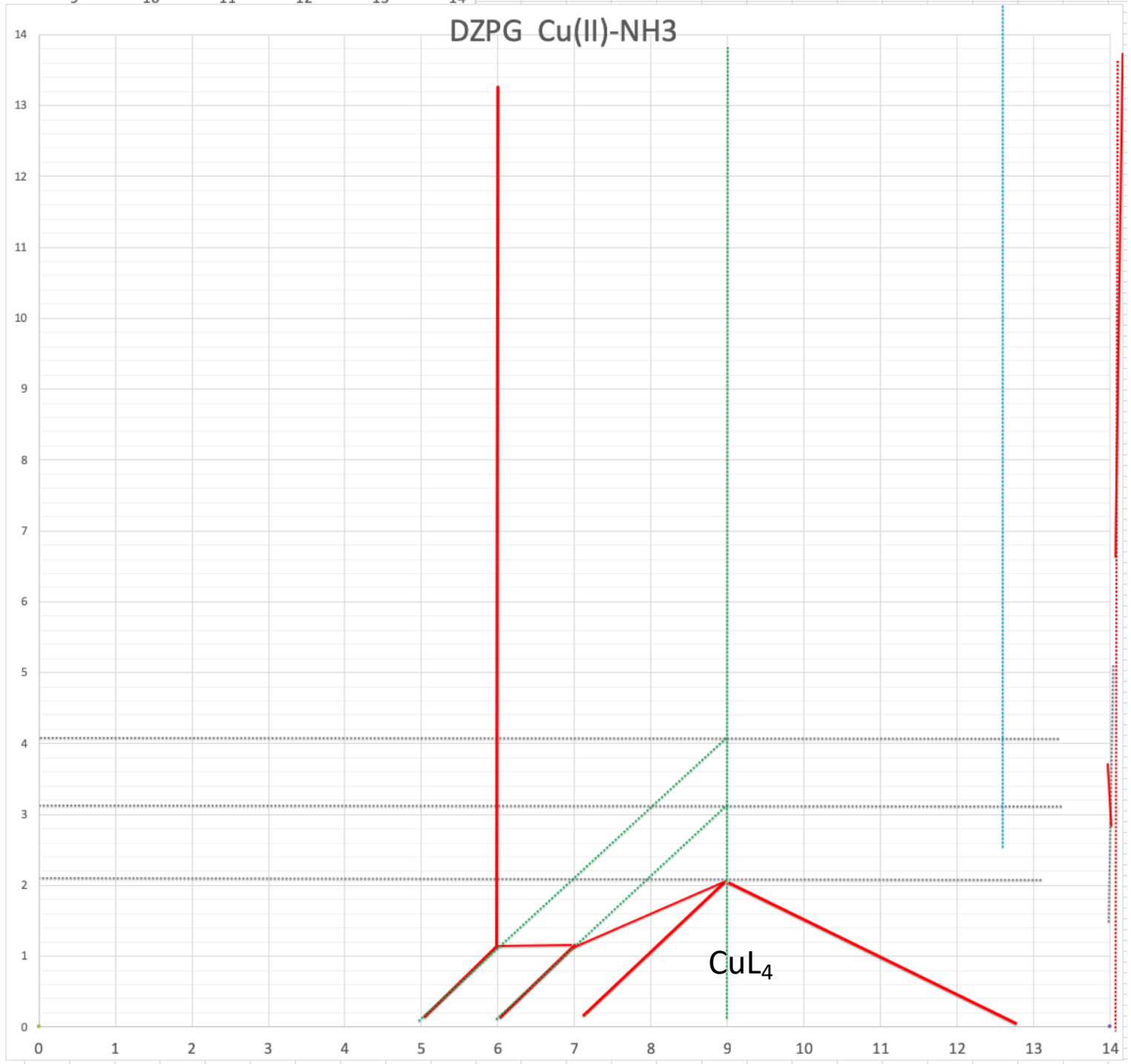


$CuL_3 + 2H_2O + H \rightleftharpoons Cu(OH)_{2\downarrow} + 3HL$

3L´: 1H

m = +1/3

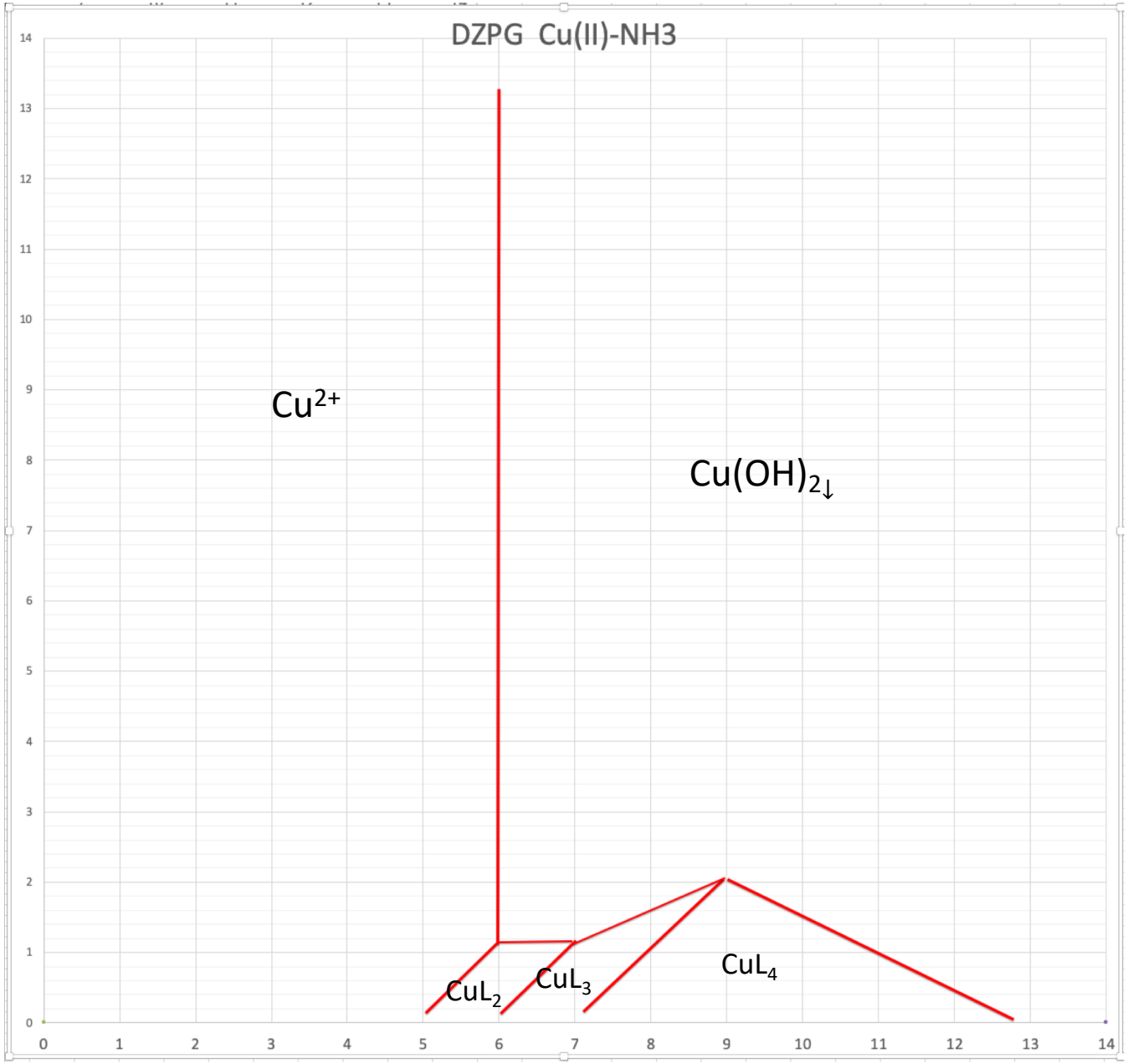
PASO 7:



$CuL_4 + 2H_2O \rightleftharpoons Cu(OH)_{2\downarrow} + 4L + 2H$

4L´: 2H

m = -1/2



$CuL_4 + 2H_2O \rightleftharpoons Cu(OH)_{2\downarrow} + 4L + 2H$

$4L' : 2H$

$m = -1/2$