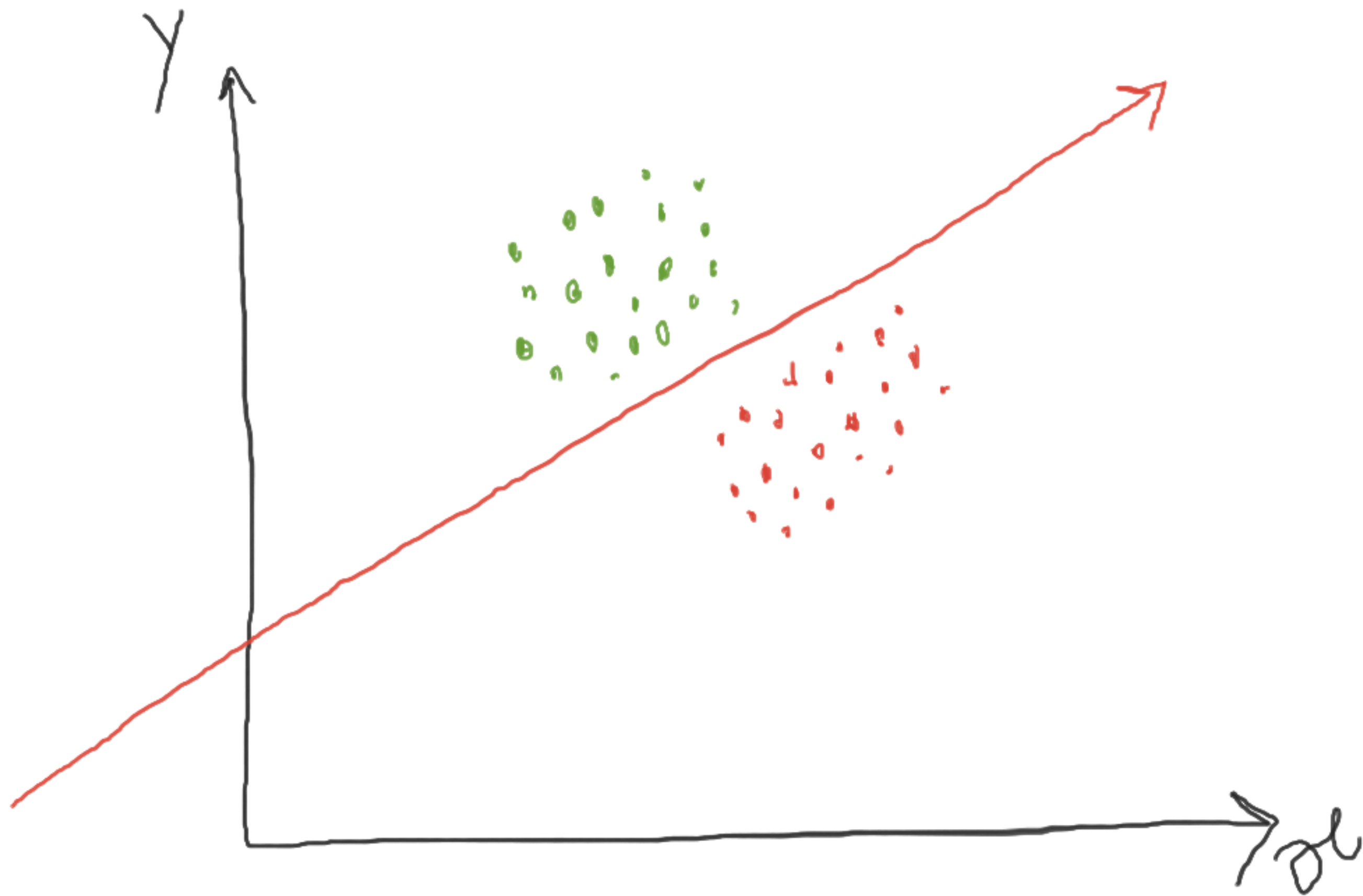


## 11] Multiclass classification:

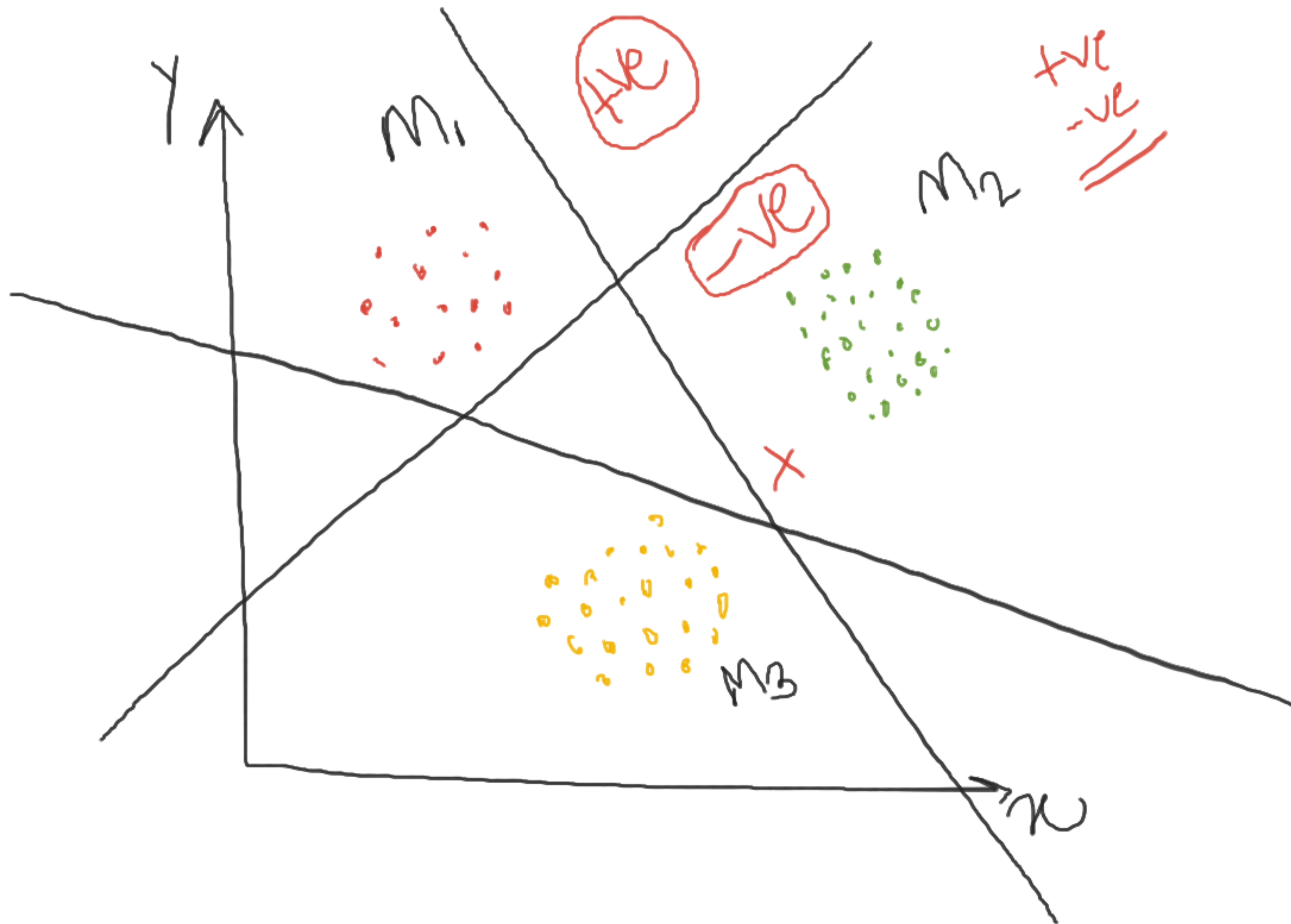
∴ Target var<sup>n</sup> is having more than two unique values.

Color = Red, Green, Yellow

Multi-class = OVR = one vs Rest



Target  
↓  
Red → 0  
Green → 1




OVR =  
one vs  
rest


$$m_1 = (m_2, m_3)$$

$$m_2 = (m_1, m_3)$$

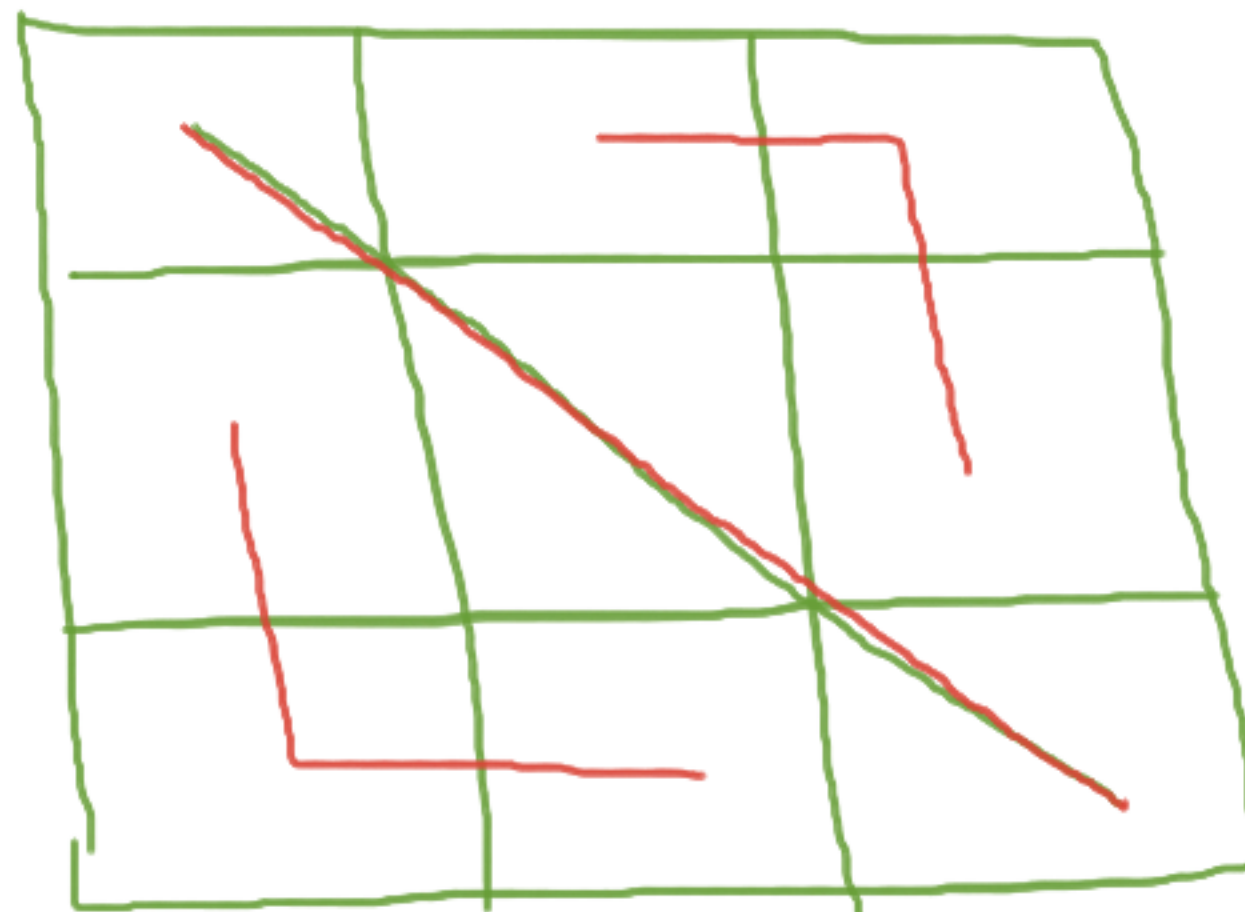
$$m_3 = (m_1, m_2)$$

$$I] M_1 =$$


$$II] M_2 =$$


$$III] M_3 =$$


3x3



$x_1$	$x_2$	$y$	$m_1$	$m_2$	$m_3$	<del>UNR</del>
3	1	Red	+ve	-ve	-ve	
1	5	Green	-ve	+ve	-ve	
7	6	Red	+ve	-ve	-ve	
6	3	Yellow	-ve	-ve	+ve	
2	4	Green	-ve	+ve	-ve	
4	2	Yellow	-ve	-ve	+ve	

Red = 20  
+ve

Green = 20 + yellow = 20

-ve

OVR

Red(m) %

20	0
0	40