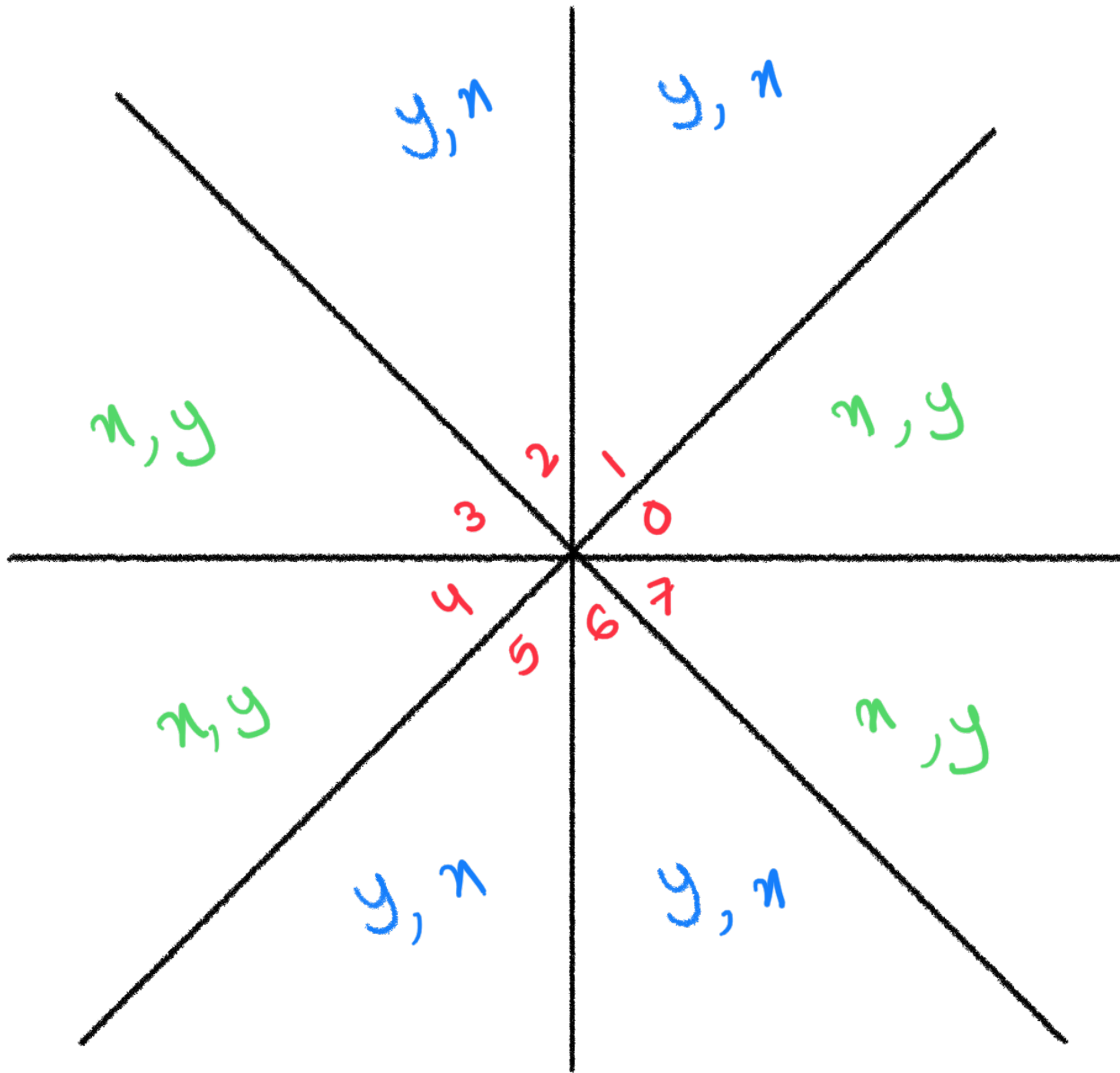
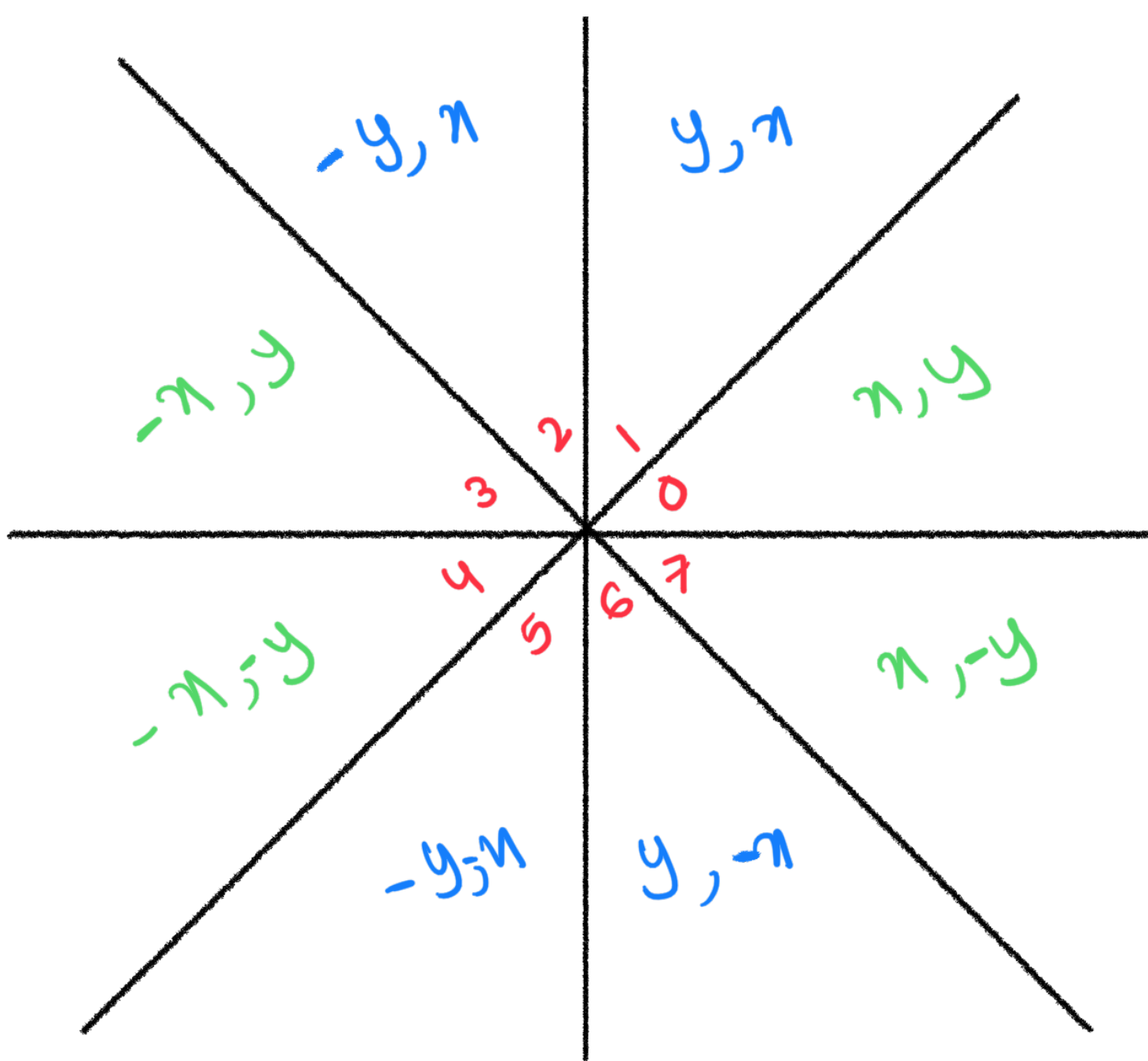


# Zone Conversion

Let's Convert Zone 0 to Other Zones :



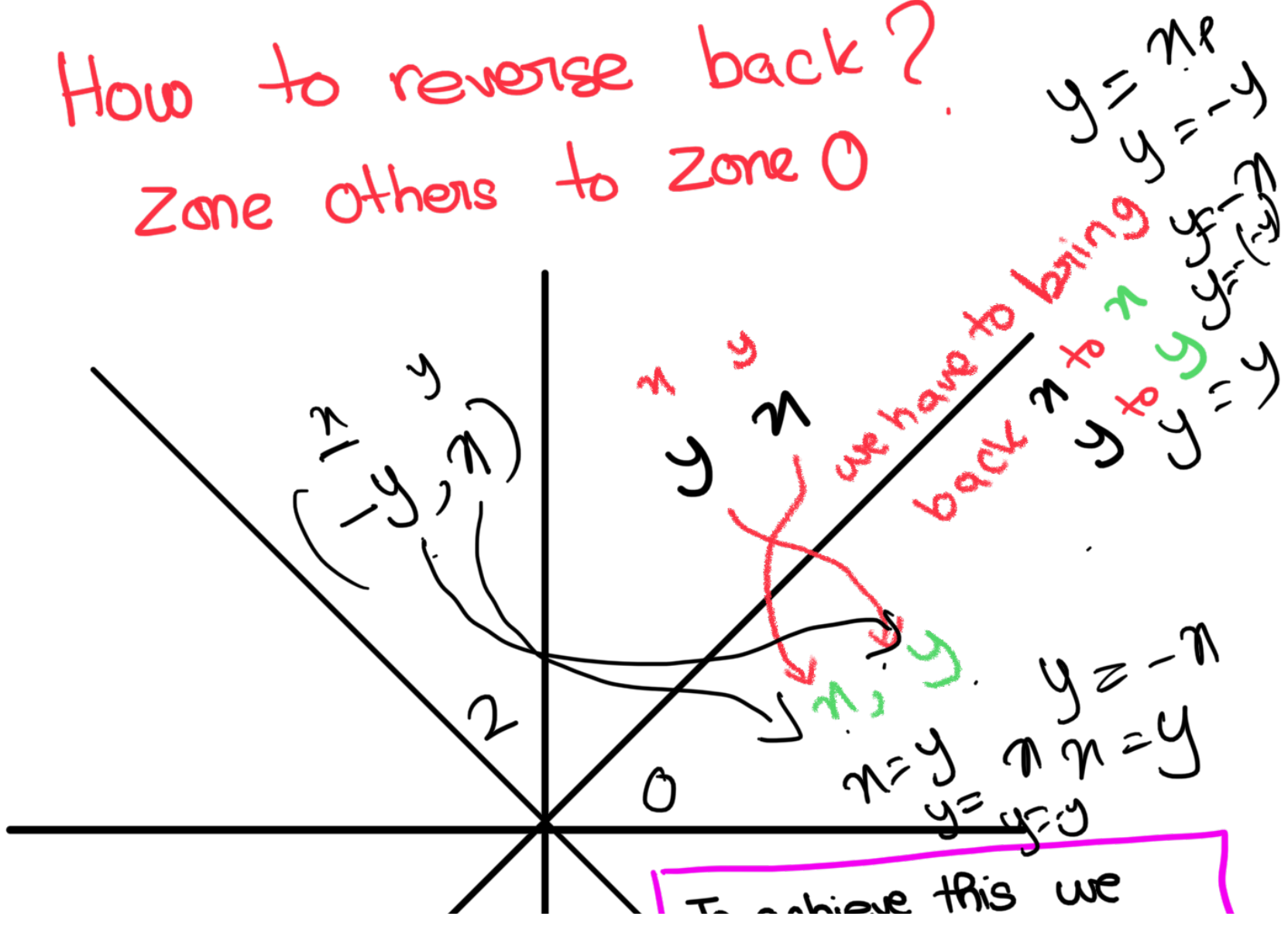
Step 1: Using dn & dy we will place our n & y coordinates.



Step 2: Depending on  $\pi$  &  $y$  axis put the signs.

How to reverse back?

Zone others to Zone 0

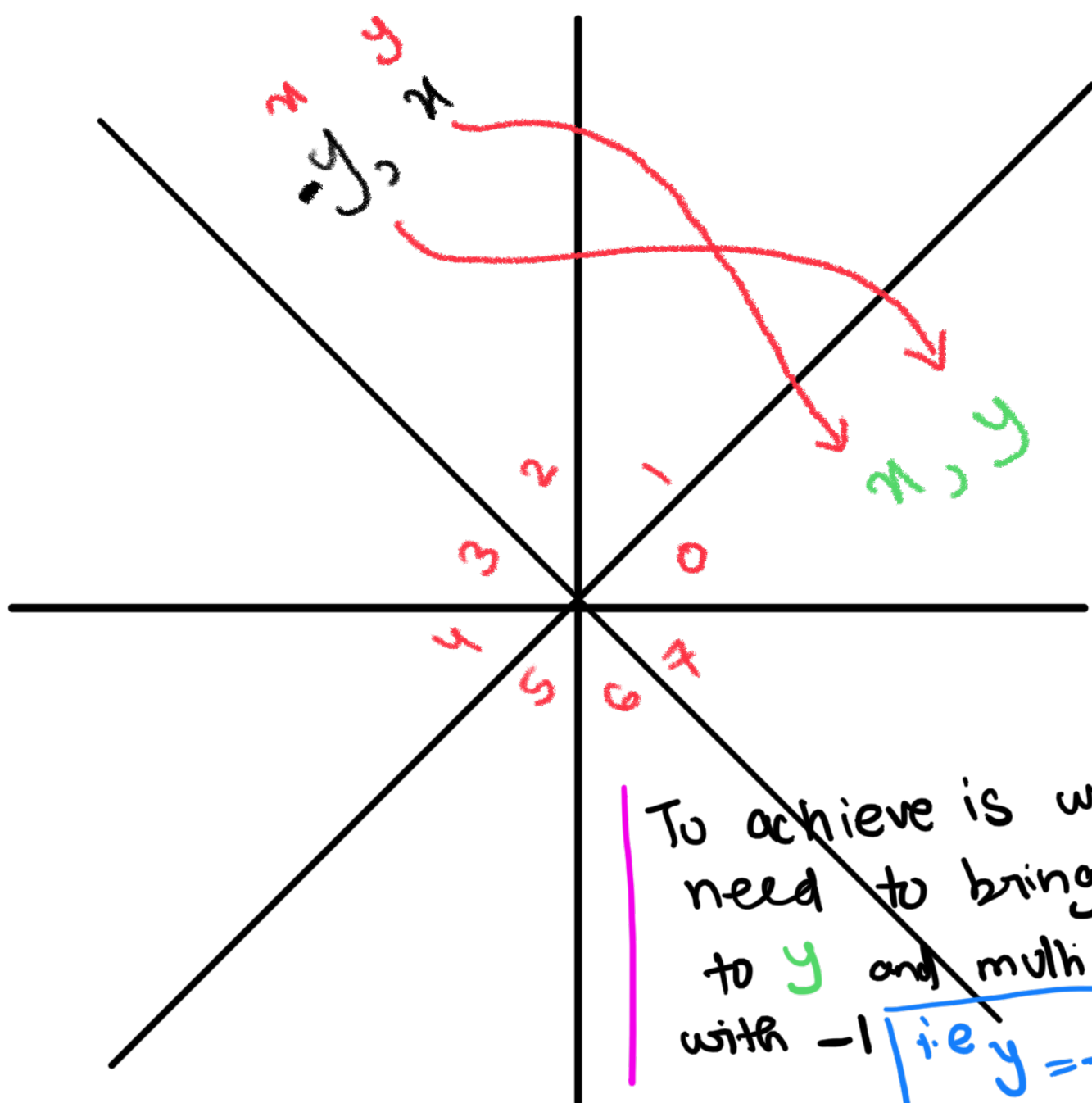


to achieve  
need to bring  $x$   
to  $y$  and  $y$  to  $x$

∴ we can write  
Zone 1

$$x = y$$

$$y = x$$



$$\begin{aligned} \text{ie } y &= -x \\ y &= -1(-y) \\ y &= y \end{aligned}$$

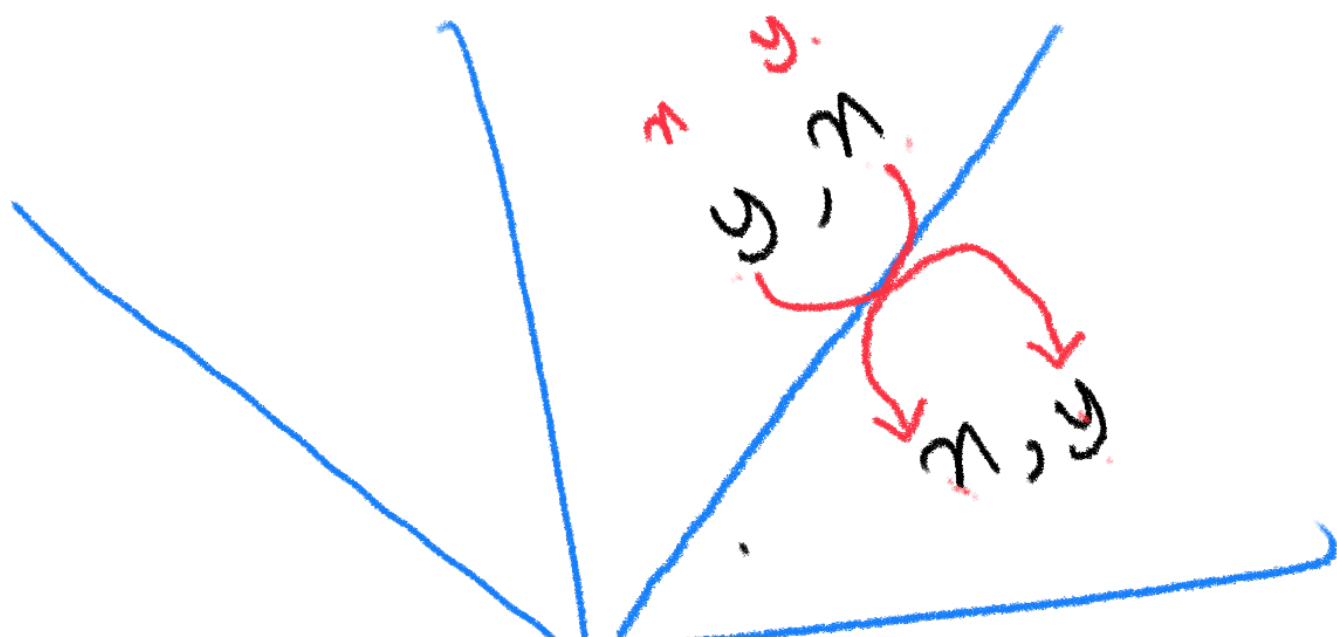
Also  $y$  to  $x$

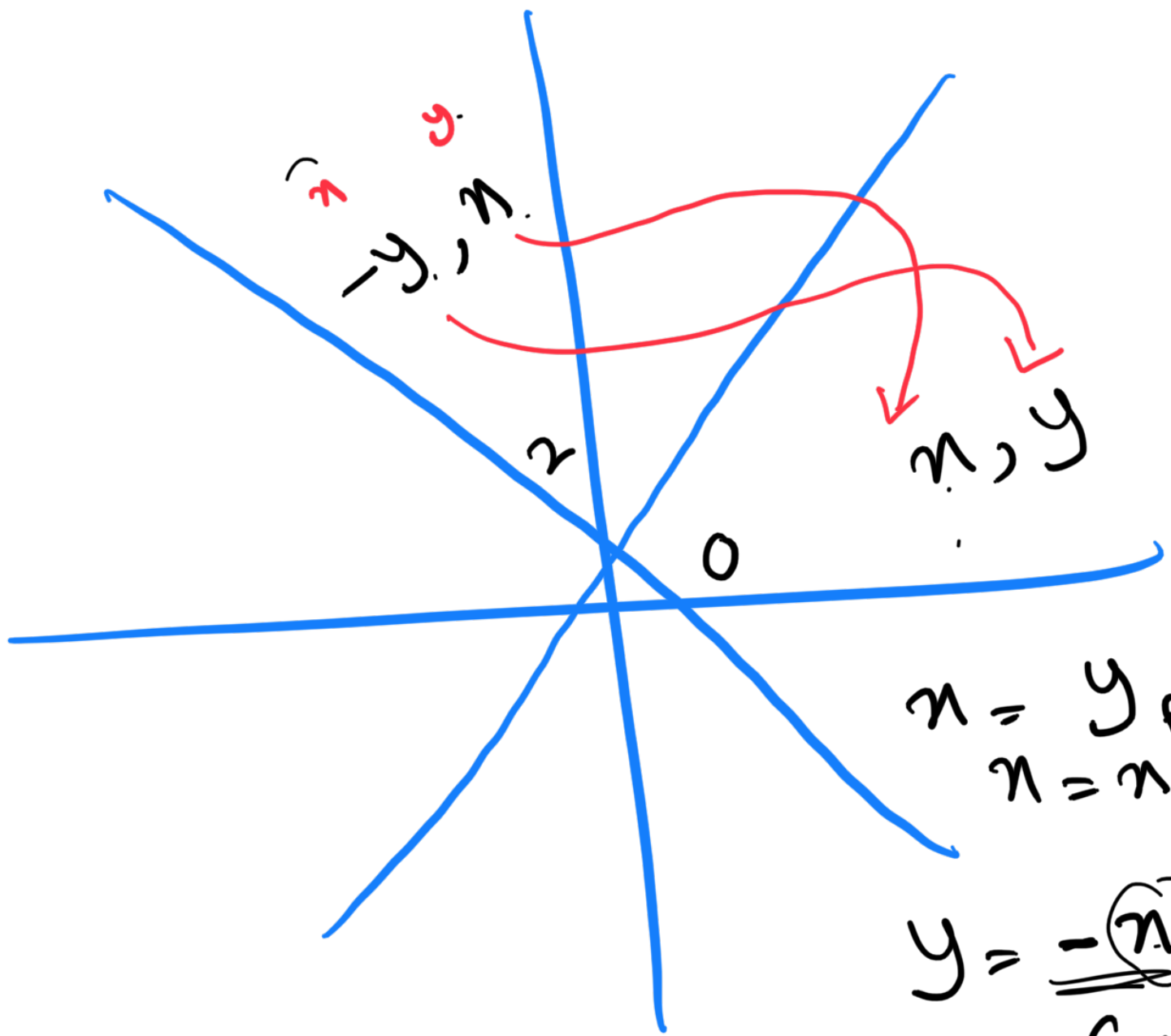
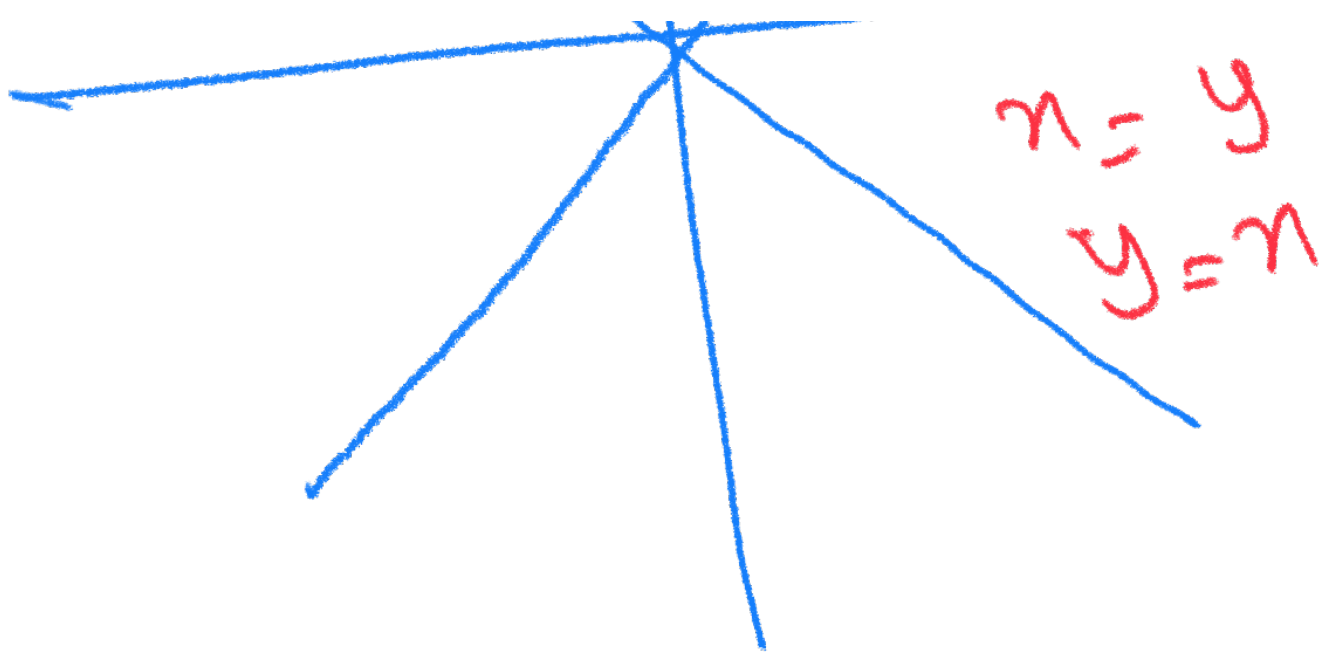
We can write,

$$x = y$$

$$y = -x$$

Other Zone to  
Region Zone 0





$$x = y$$

$$x = x$$

$$y = -x$$

$$y = -(-y)$$

$$y = y$$