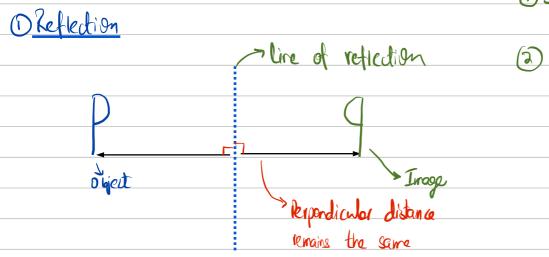
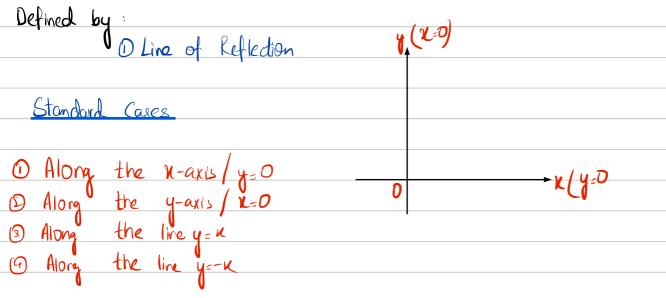


-> Tranformation Matrices (D Level Only)

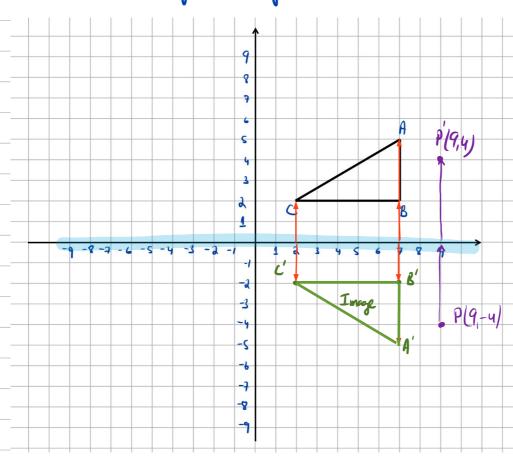


- ① Shape & size remains the same (inverted)
- (2) Irroge & the object are equidistant from the line of reflection



DAlong the K-axis or y=0

Reflect MBC along the line y=D

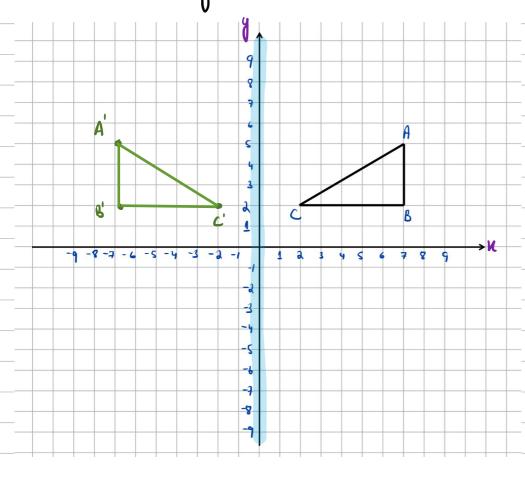


$$A(7,5) \longrightarrow A'(7,-5)$$

$$C(3,2) \longrightarrow C'(2,-2)$$

$$P(n,y) \rightarrow P(n,-y)$$

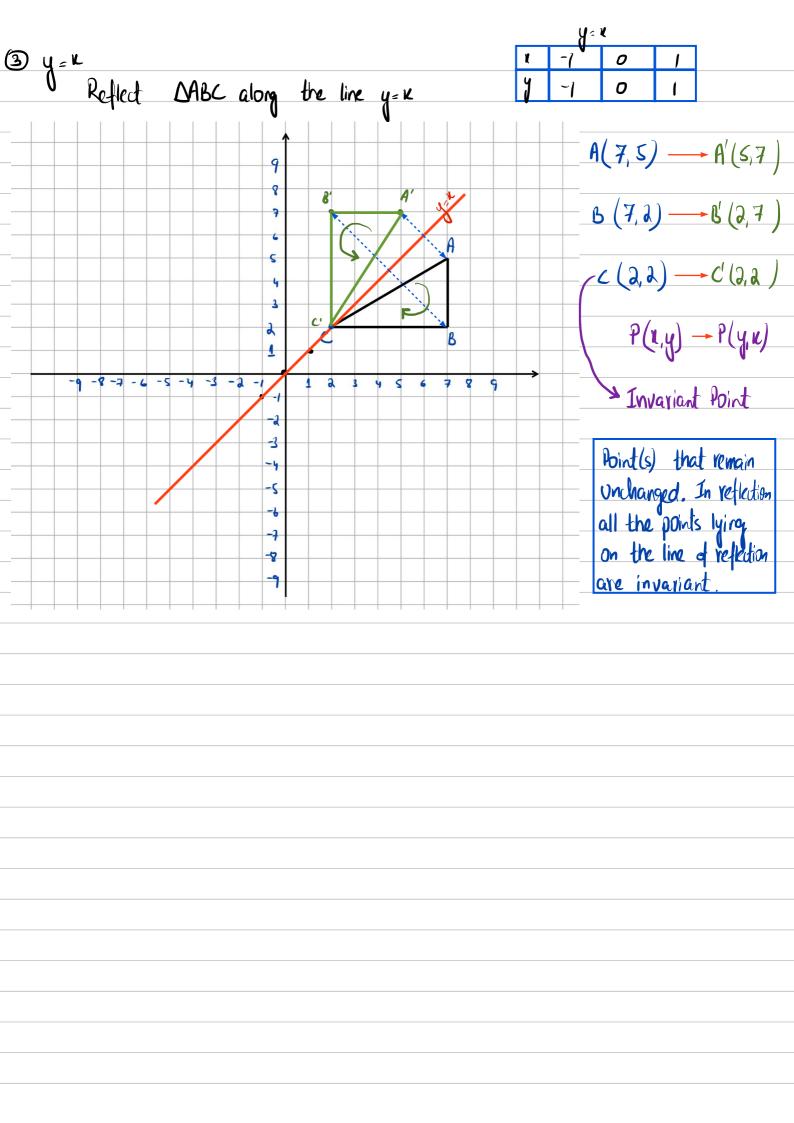
Reflect DABC along the line x=0



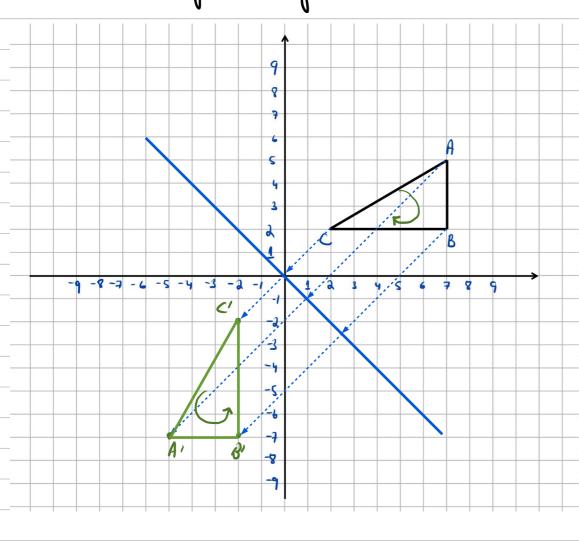
$$A(7,5) \longrightarrow A'(-7,5)$$

$$C(3,2) \longrightarrow C'(-3,2)$$

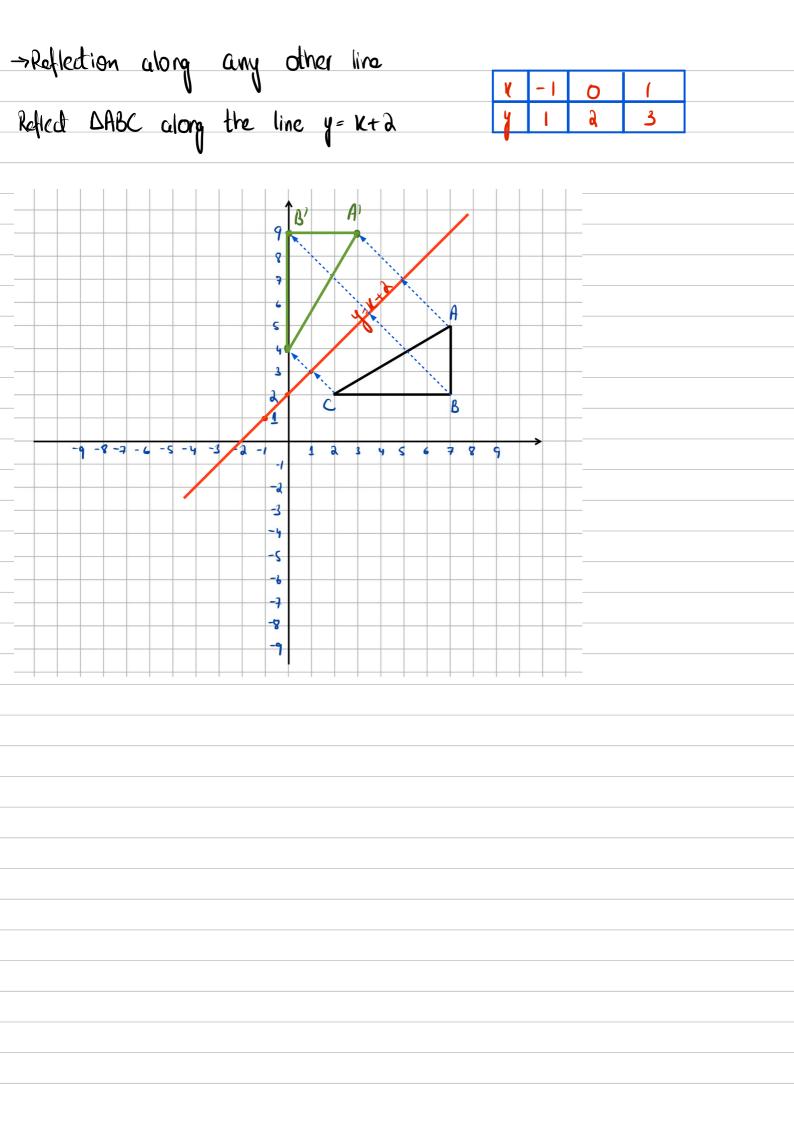
$$P(x,y) \rightarrow P'(-x,y)$$



Reflect DABC along the line y=-u

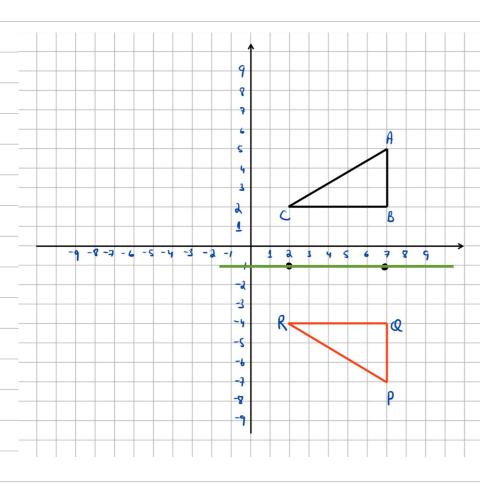


$$A(7,5) \longrightarrow A(-5,-7)$$



> How to find the line of Reflection?

Example 1



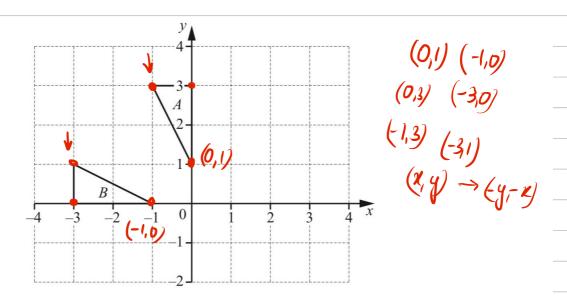
Step 1: Find the Midpoint of A & A'

Step 2: Find the Midpoint of B & B'

Step 3: Join the two points found in sl & sa

y =-1

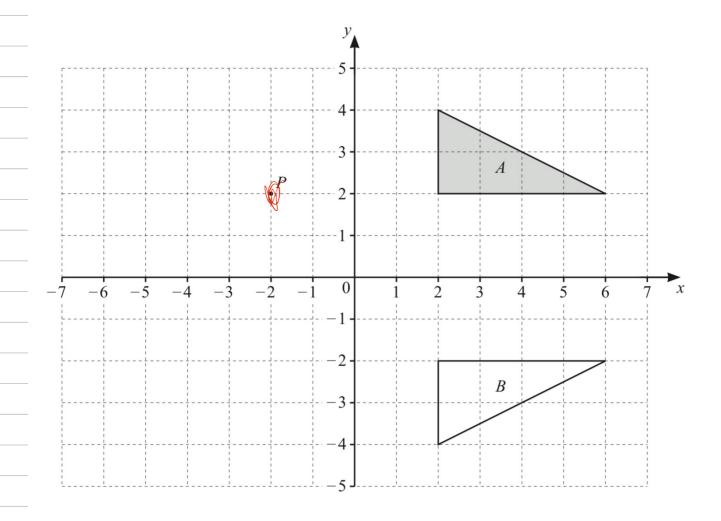
Example 2



The diagram shows triangles A and B.

(a) Describe fully the **single** transformation that maps triangle A onto triangle B.

Reflection	alora	the	live	Y=-K		
	([2]



y=0 Equation: y=0