

Geometry

Reflection on a specific line

1. (i) Identify the line $X = -1$

$$X = -1$$

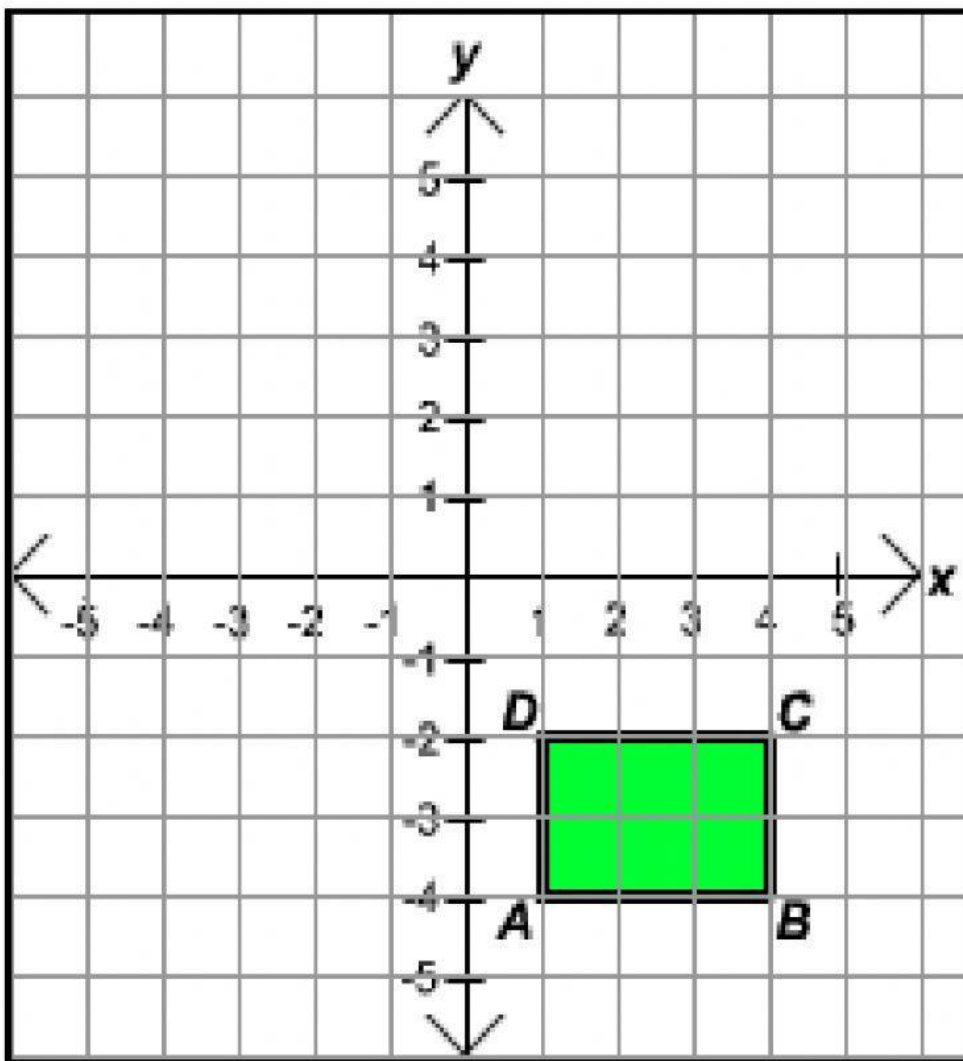
- (ii) Reflect rectangle ABCD in the line $x = -1$. Label the image $A_1B_1C_1D_1$

A_1

B_1

C_1

D_1



2. (i) Identify the line $y = 2$

$$Y = 1$$

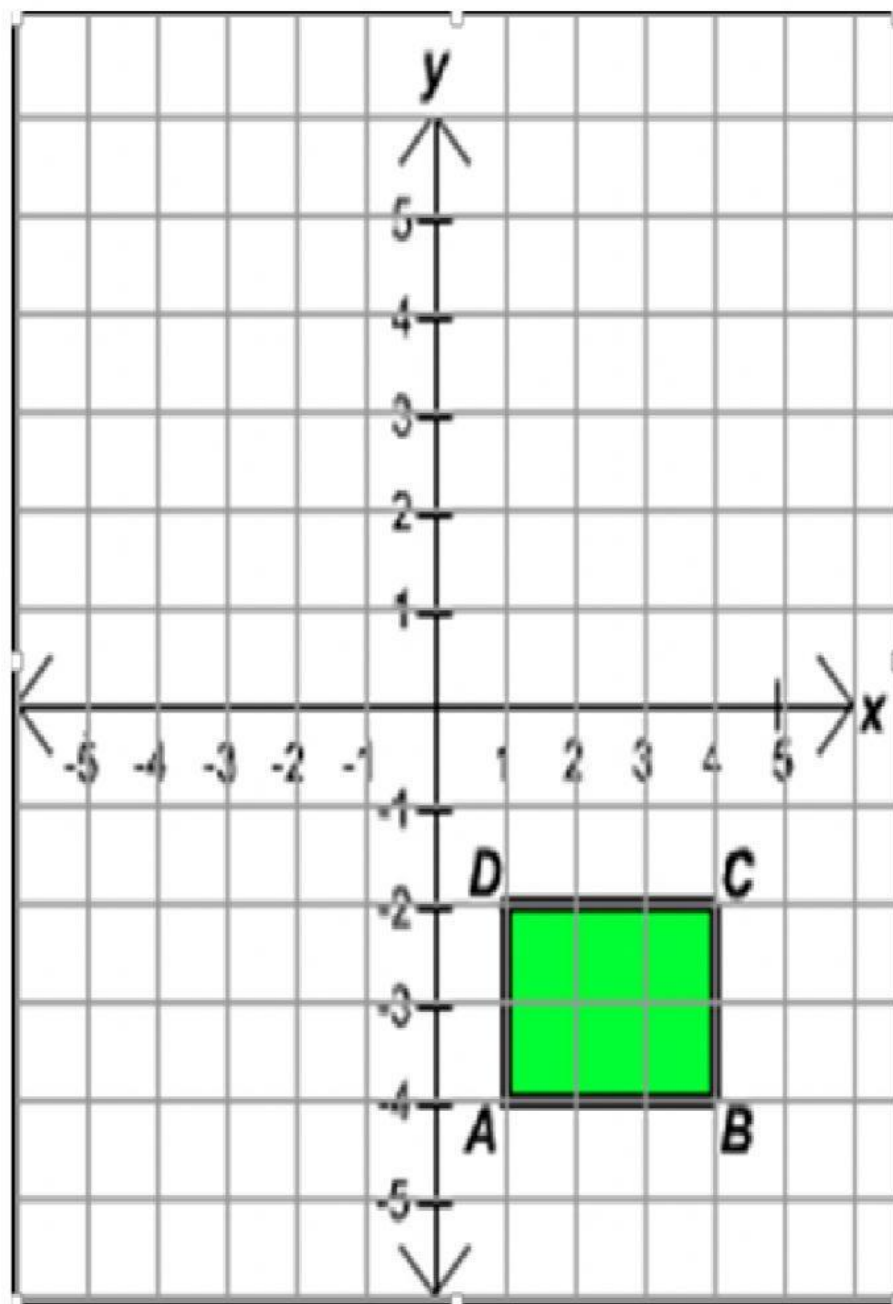
- (ii) Reflect rectangle ABCD in the line $y = 1$. Label the image $A_2B_2C_2D_2$

A_2

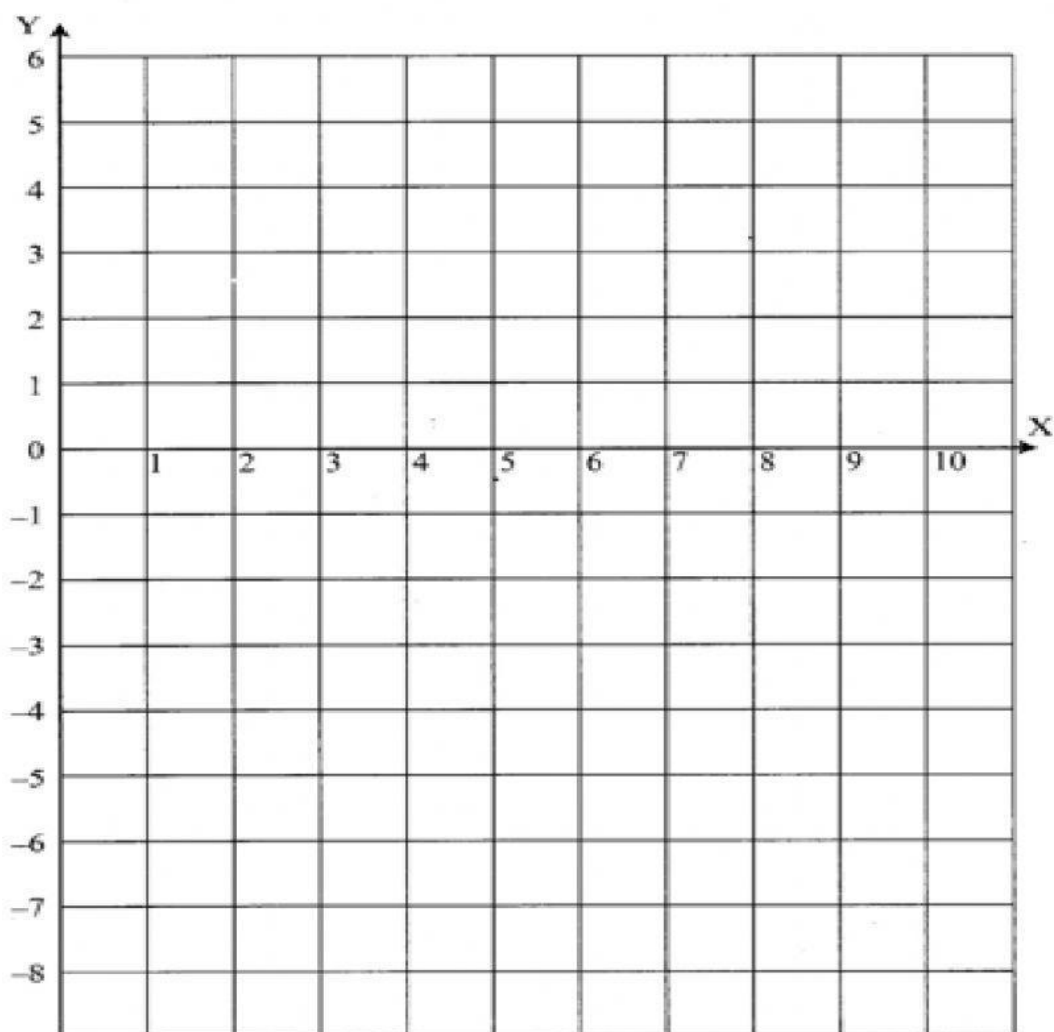
B_2

C_2

D_2



3.



(a) Plot and label the following points

A (2, 1), B(4,1) C (4,3), D(2,4)

A

B

C

D

(b) On the graph, identify the line $y = -2$

$y = -2$

© Reflect ABCD in the line $y = -2$

A₁

B₁

C₁

D₁

(d) Write down the coordinate of D₁

