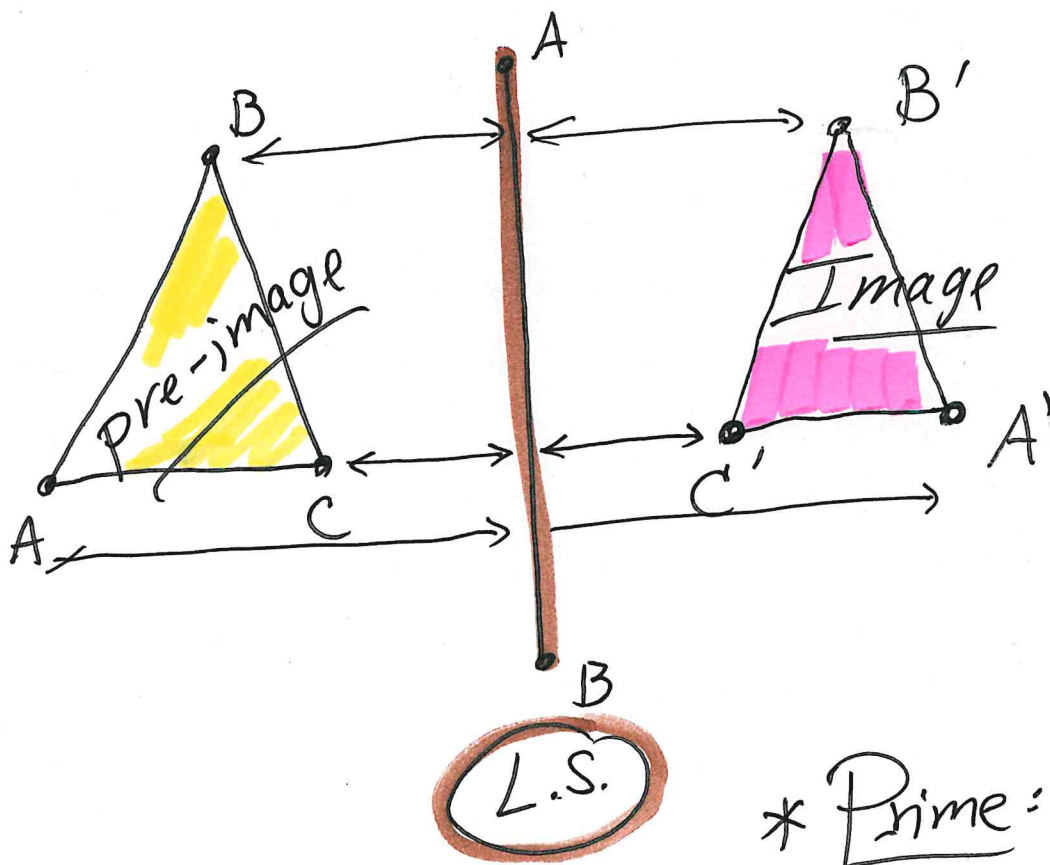


9/13 Lesson 13 Reflections

Reflections: mirror image over an axis.

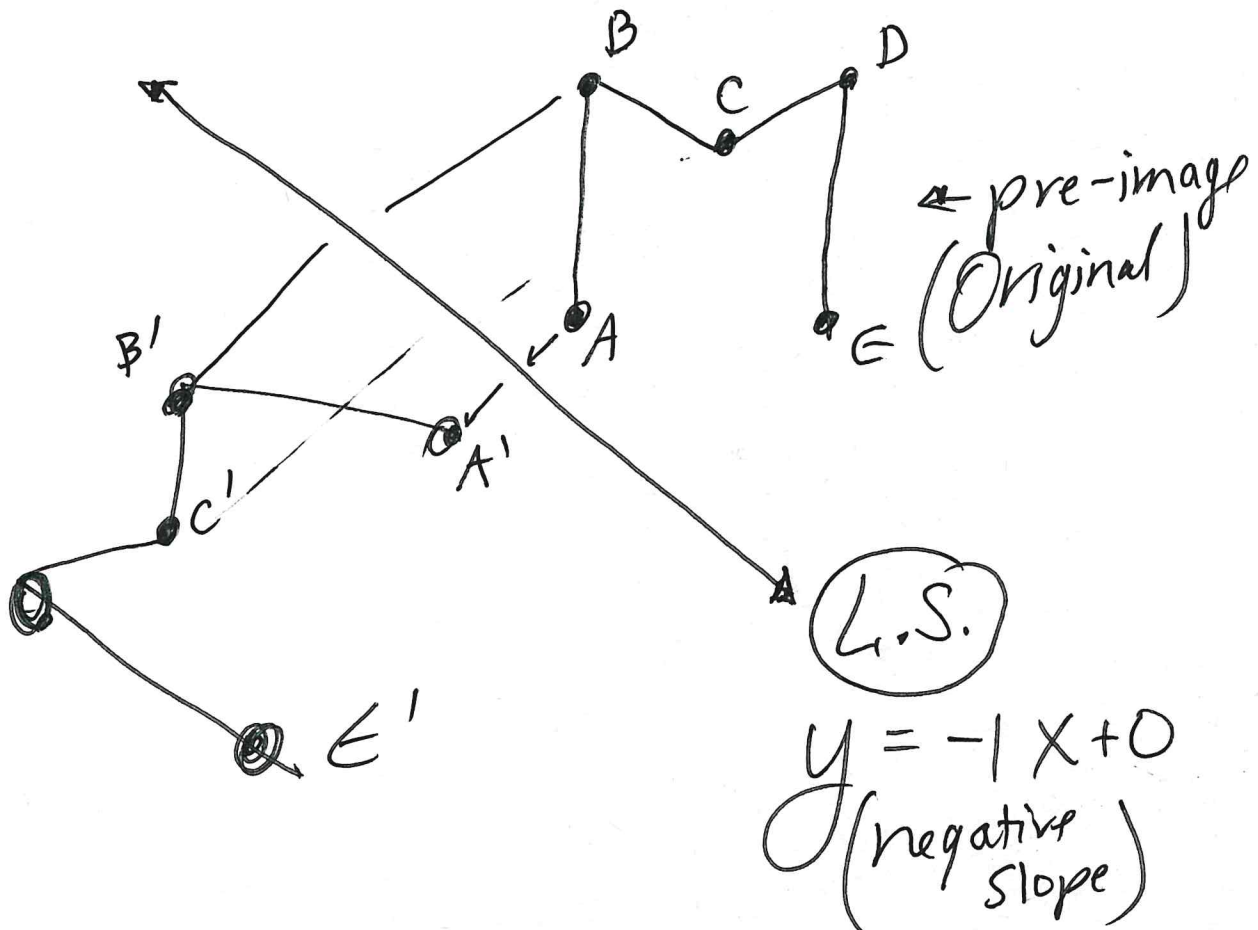
(L.S.) (Line of reflection/symmetry)

ex 1

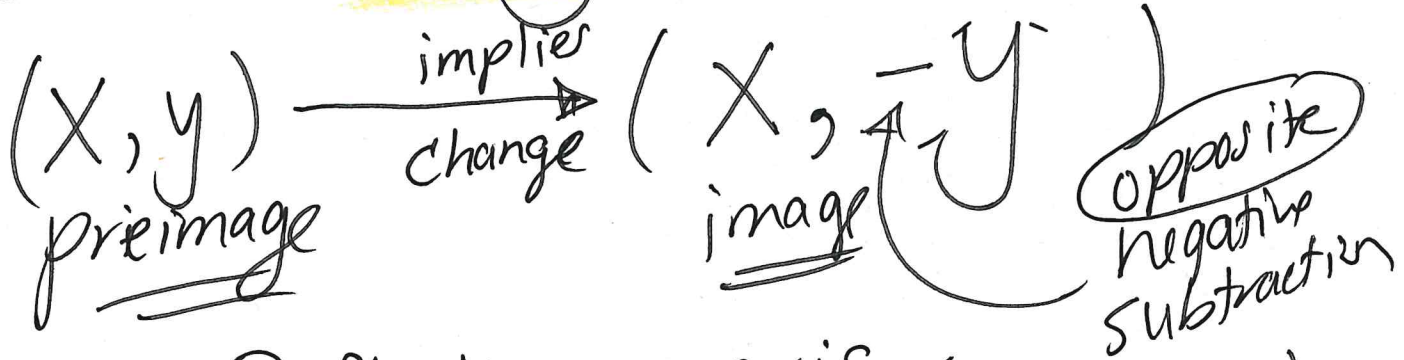


* Prime: (')
changed

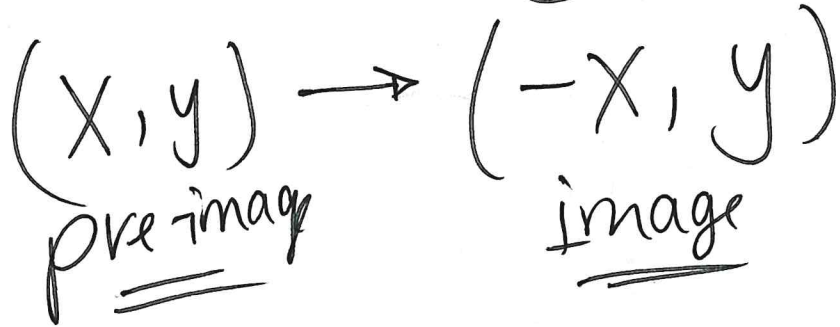
ex2



Tricks: Reflecting x-axis (y-changes)

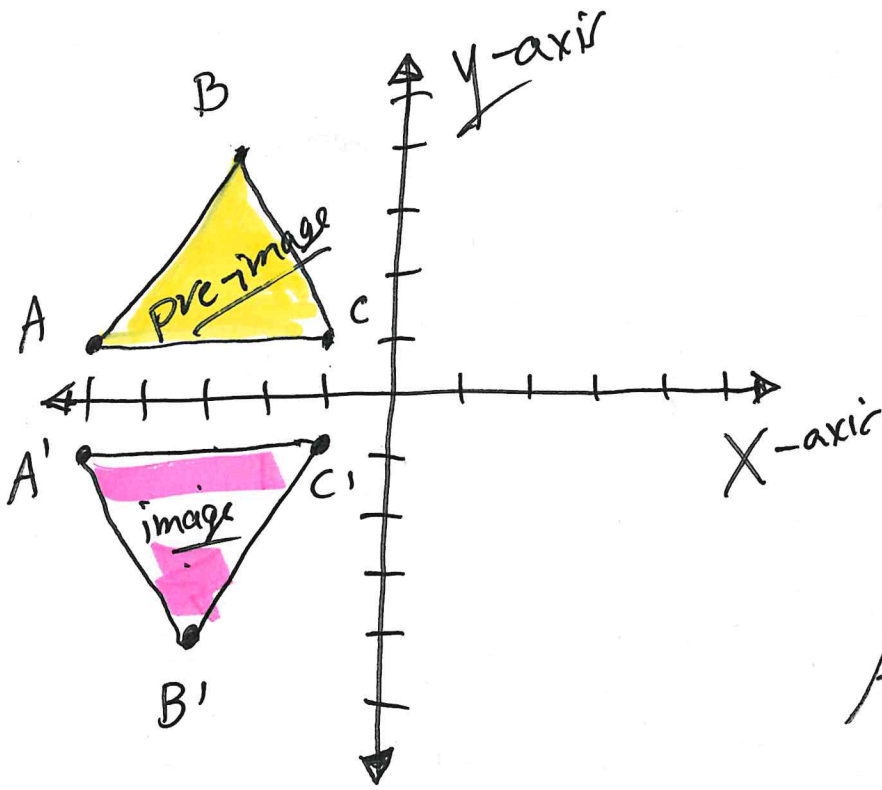


Reflecting y-axis (x-changes)



ie1

Reflect over X-axis



$$A(-5, 1)$$

$$B(-3, 4)$$

$$C(-1, 1)$$

$$A'(-5, -1)$$

$$B'(-3, -4)$$

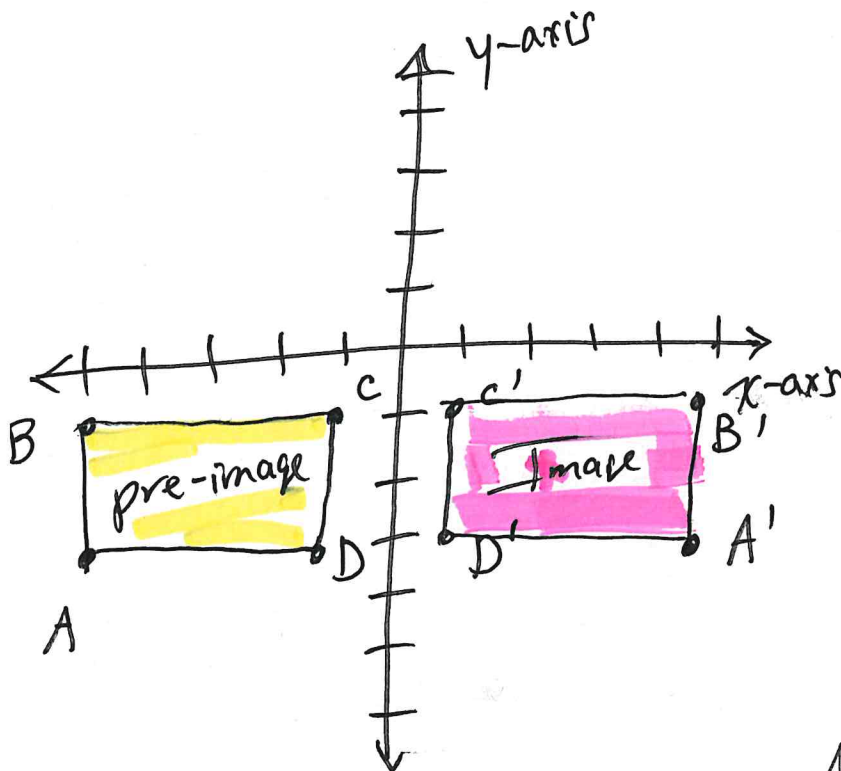
$$C'(-1, -1)$$

Y's Change

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

FORMULA

ex 2 Reflect across y-axis



$$A(-5, -3)$$

$$B(-5, -1)$$

$$C(-1, -1)$$

$$D(-1, -3)$$

$$A'(5, -3)$$

$$B'(5, -1)$$

$$C'(1, -1)$$

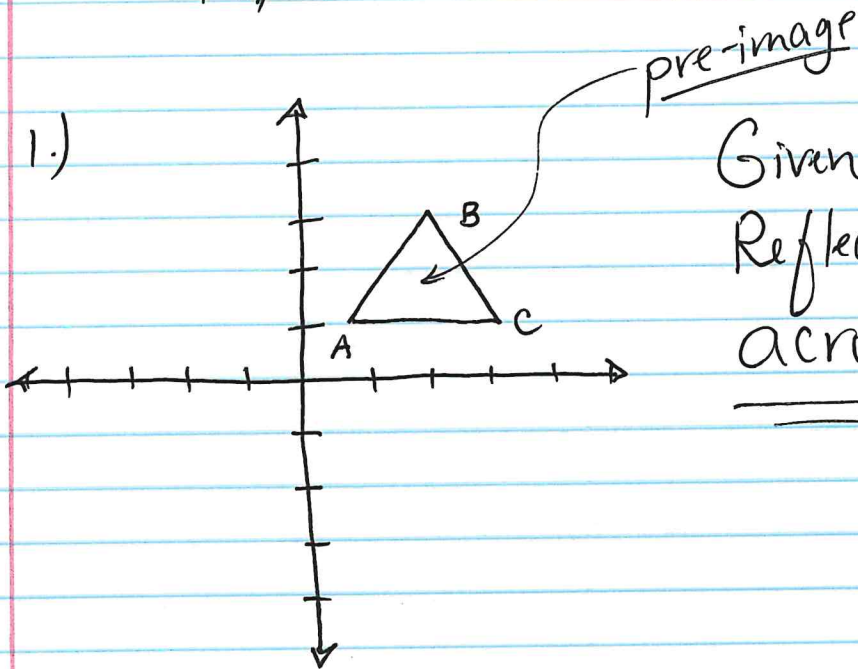
$$D'(1, -3)$$

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

FORMULA

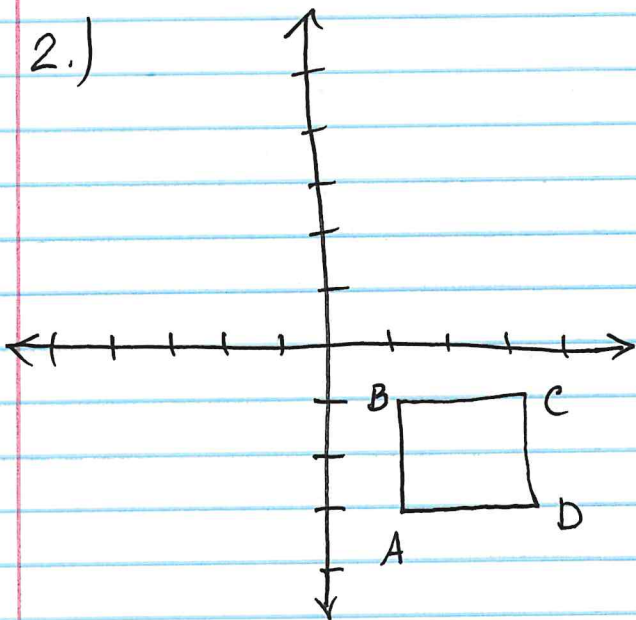
Lesson 13 HWK
pgs. 75-77
#1-5

1.)



Given $\triangle ABC$
Reflect pre-image
across y-axis

2.)

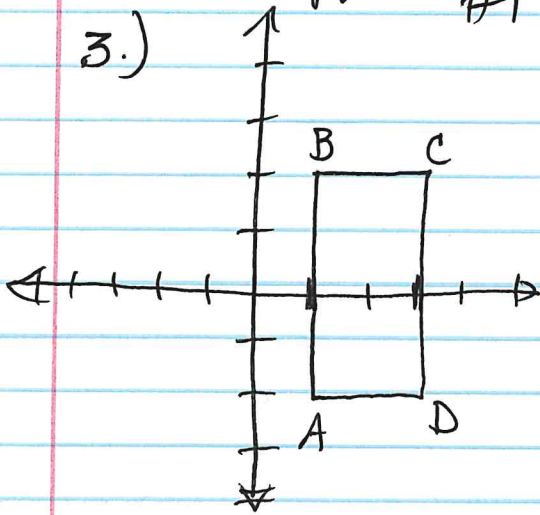


Given $\square ABCD$
Reflect pre-image
across x-axis

(1)

Lesson 13
pgs. 75-77
#1-4

3.)



Given $\square ABCD$

Reflect across
y-axis

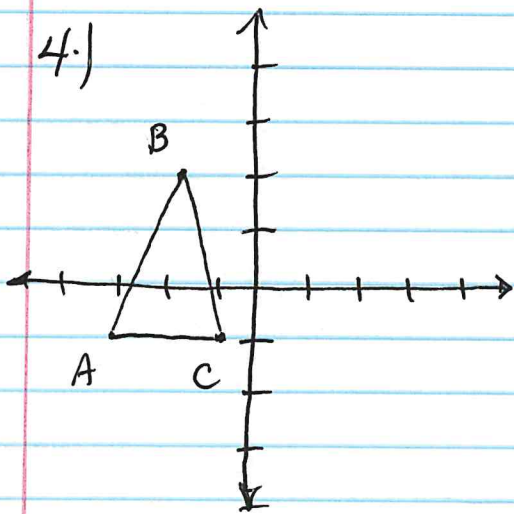
$A(1, -2)$ $A'(\quad)$

$B(1, 2)$ $B'(\quad)$

$C(3, 2)$ $C'(\quad)$

$D(3, -2)$ $D'(\quad)$

4.)



Given $\triangle ABC$

Reflect across
x-axis

Hint $A(-3, -1)$ $B(-2, 2)$ $C(-1, -1)$

$A'(\quad)$ $B'(\quad)$ $C'(\quad)$