⑥ 90° clockwise rotation * see graph paper

A (2,4) → A' (4, -2)
B (4,4) → B' (4, -4)
C (4,1) → C' (1, -4)
D (2,1) → D' (1, -2)

270° clockwise rotation

A (2,4) → A' (-4, 2)
B (4,4) → B' (-4, 4)
C (4,1) → C' (-1, 4)
D (2,1) → D' (-1, 2)

* Ignore the next two parts

⑦ Reflection
⑧ Rotation
⑨ Translation
⑩ No, translation 7 units to the right
⑪ Rotation 90° clockwise
⑫ Rotation 180° clockwise or counterclockwise
⑬ on graph paper
⑭ on graph paper
⑰ on graph paper
⑲ Yes, a 120° rotation is needed
⑳ Yes, 90°
㉑ Yes, 180°

* 270° clockwise — same as 90° counterclockwise

* 3 units left, 8 units up

(22) $R(-7,-5) \rightarrow R'(5,-7) \longrightarrow (x-3, y+8) \rightarrow R'(2,1)$

$S(-1,-2) \rightarrow S'(2,-1) \longrightarrow (x-3, y+8) \rightarrow S'(-1,7)$

$T(-1,-5) \rightarrow T'(5,-1) \longrightarrow (x-3, y+8) \rightarrow T'(2,7)$

* Reflect in x-axis — 180° rotation

(23) $J(-4,4) \rightarrow (x,-y) \rightarrow (-4,-4) \rightarrow J'(4,4)$

$K(-3,4) \rightarrow (x,-y) \rightarrow (-3,-4) \rightarrow K'(3,4)$

$L(-1,1) \rightarrow (x,-y) \rightarrow (-1,-1) \rightarrow L'(1,1)$

$M(-4,1) \rightarrow (x,-y) \rightarrow (-4,-1) \rightarrow M'(4,1)$

(26) on graph paper

(27) Do rotations first → 180° then, 90° counterclockwise

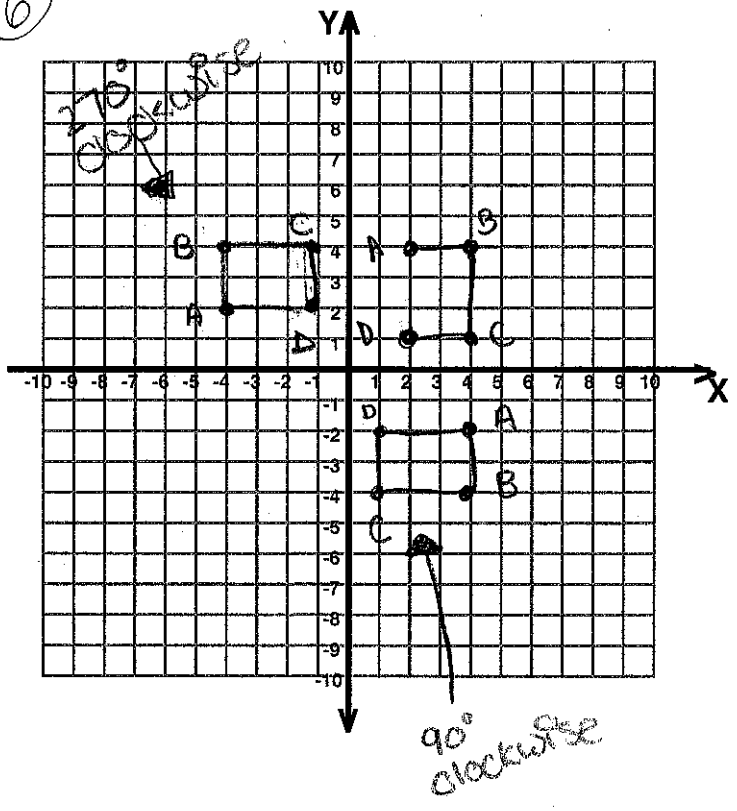
Do the reflection

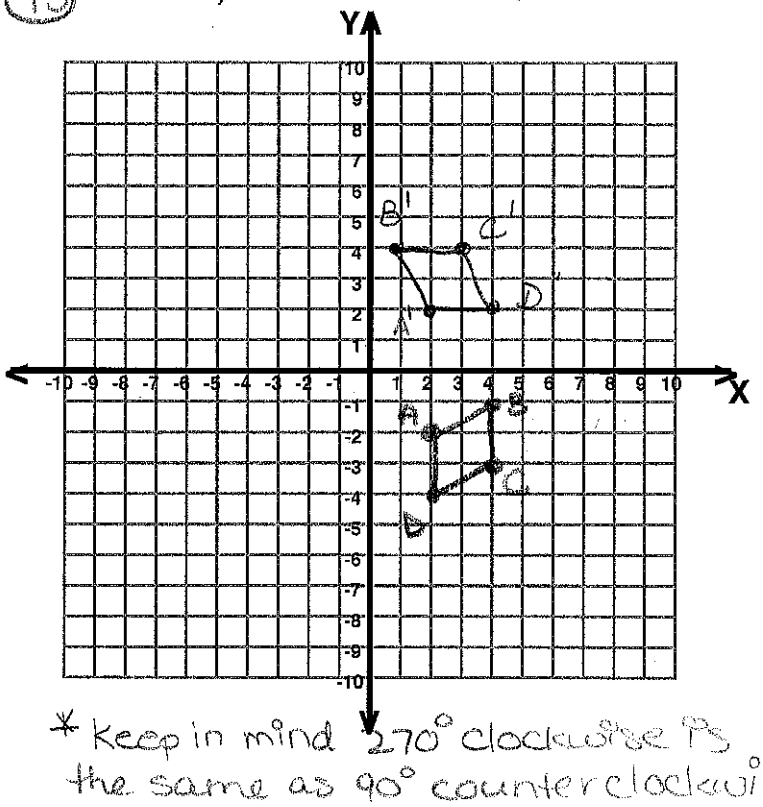
Do the translation

(28)

A(2,-2) → A'(-2, 2)
B(4,-1) → B'(1, -4)
C(4,-3) → C'(3, 4)
(13) D(2,-4) → D'(4, 2)

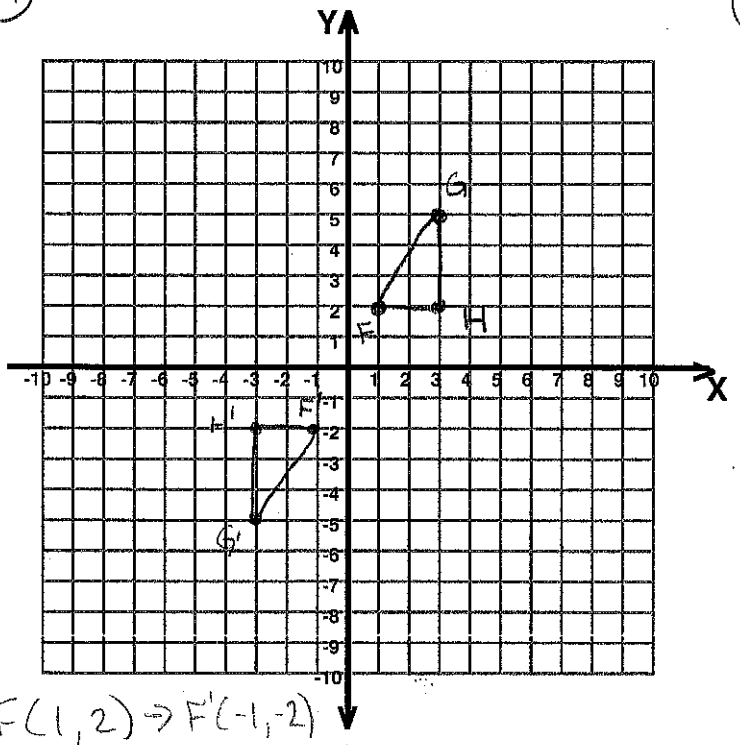
(6)





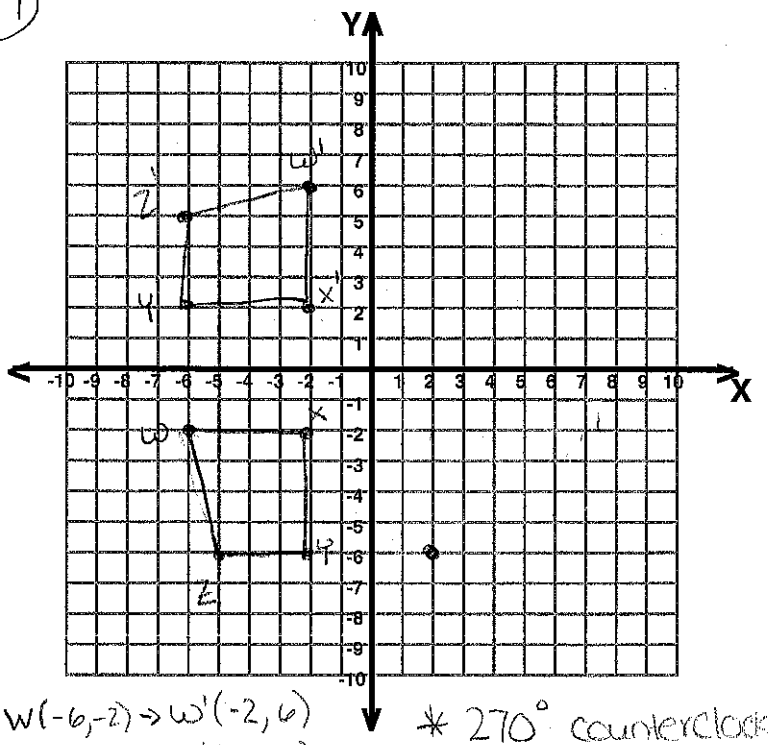
* Keep in mind 270° clockwise is the same as 90° counterclockwise

(14)



F(1,2) → F'(-1,-2)
G(3,5) → G'(-3,-5)
H(3,2) → H'(-3,-2)

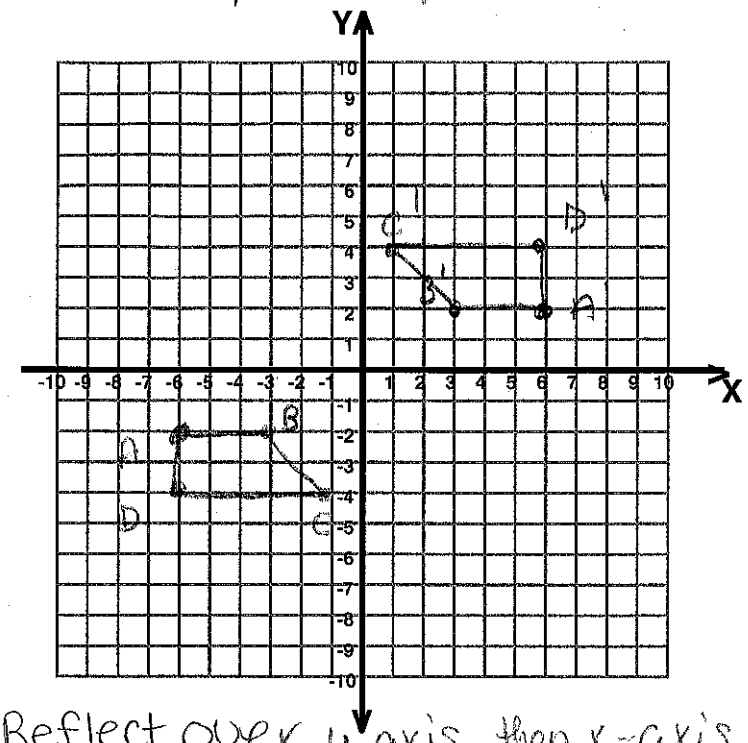
(17)



W(-6,-2) → W'(-2,6)
X(-2,-2) → X'(-2,2)
Y(-2,-6) → Y'(-6,2)
Z(-5,-6) → Z'(-6,5)

* 270° counterclockwise is really 90° clockwise

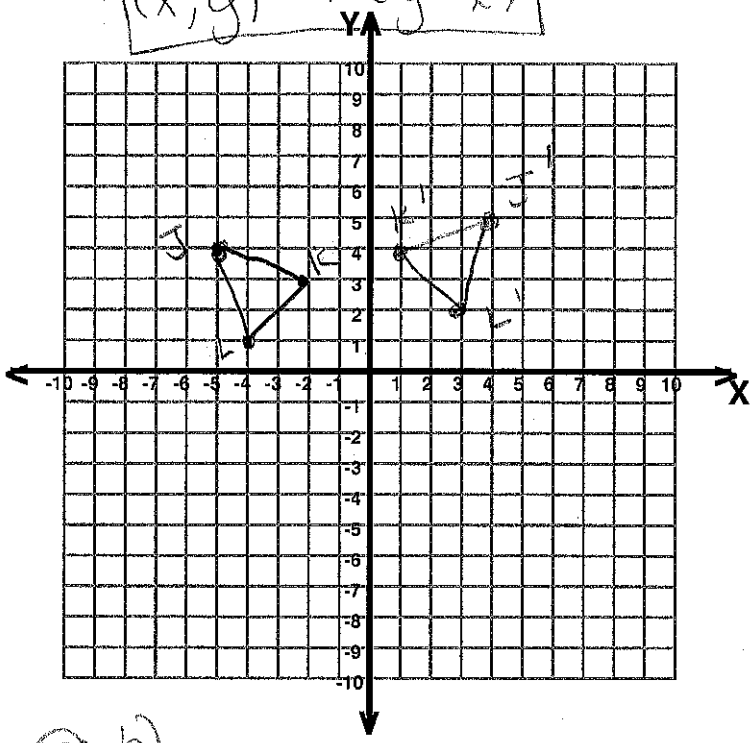
(26) A(-6, -2) → (6, 2) A'
B(-3, -2) → (3, 2) B'
C(-1, -4) → (1, 4) C'
D(-6, -4) → (6, 4) D'



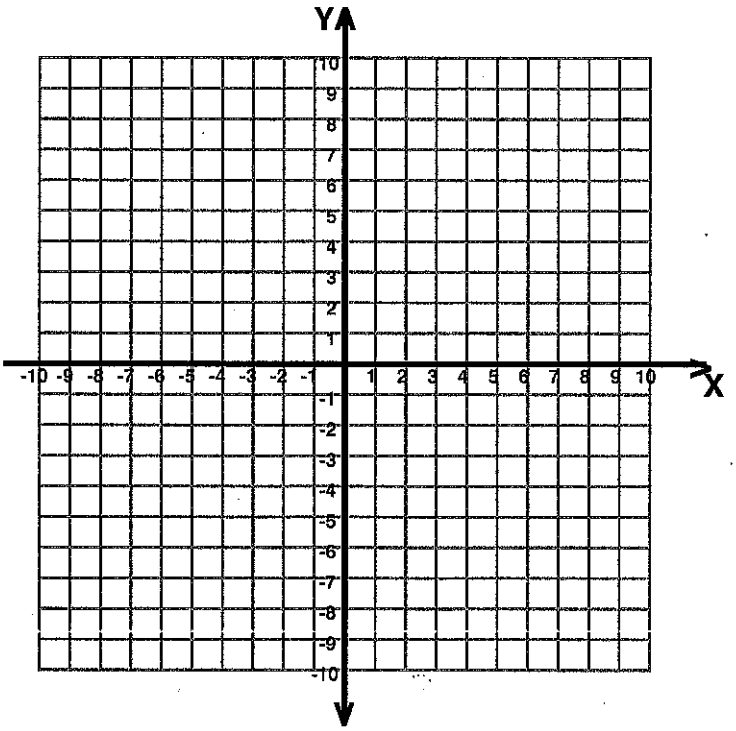
Reflect over y axis, then x-axis
or
Reflect over x axis, then y-axis

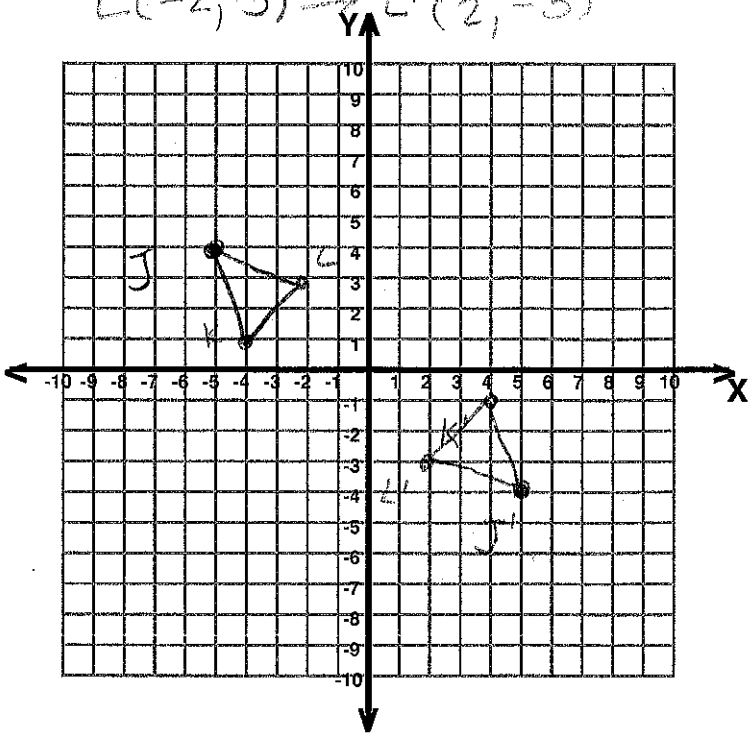
(28) a) J(-5, 4) → (4, 5)
K(-4, 1) → (1, 4)
L(-2, 3) → (3, 2)

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



(28) b)
J(-5, 4) → J'(5, -4)
K(-4, 1) → K'(4, -1)
L(-2, 3) → L'(2, -3)





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

c) Yes