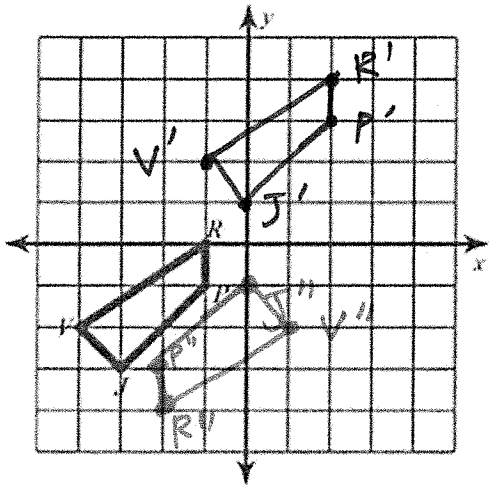
Name: Key

Transformation (re-assessment)

Test Friday 11/8/19 Review part 2



1) Preform two different transformations on the given figure RPVJ and write the new coordinates for R"P"V"J"

a-Translate the given picture 3 units right and 4 units up

b- Rotate 180 degrees

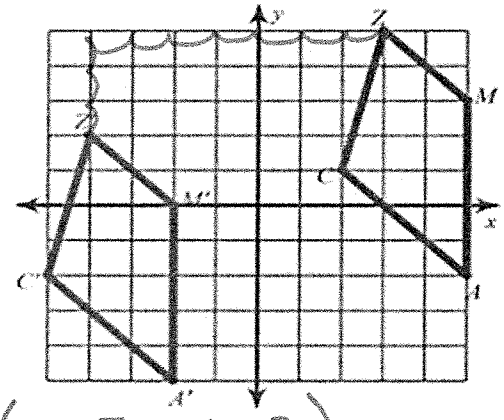
R'(2,4) J'(0,1) } Translate

P'(2,3) V'(-1,2) }

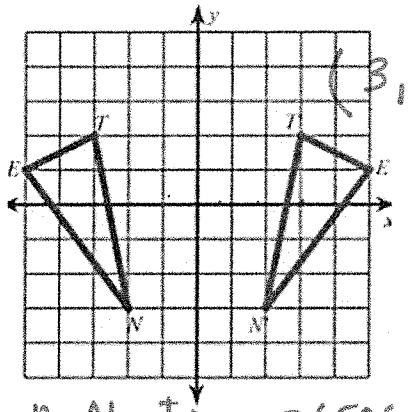
R"(-2,-4) J"(0,-1) } Rotate 180°

P"(-2,-3) V"(1,-2)

2) Write a rule describing the below transformations



(x-7, y-3)



(3, 2)

Reflection across y-axis

(3, 2) ⟶ (-3, 2)

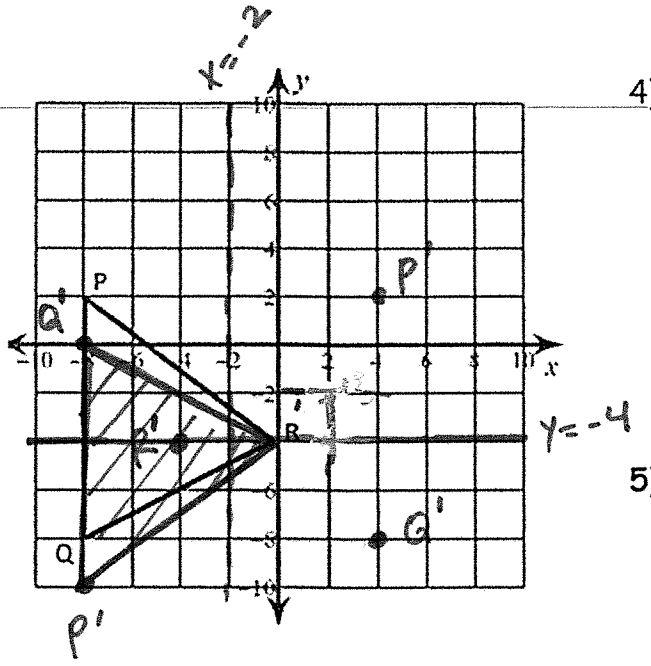
3) Write the rules of the following transformations:

a- Reflect across x-axis (x, y) ⟶ (x, -y)

b- Reflect across y-axis (x, y) ⟶ (-x, y)

c- Rotate 180 degrees (x, y) ⟶ (-x, -y)

d- Translate 2 units down and 4 units to the right (x, y) ⟶ (x+4, y-2)



4) Reflect the given image across x=-2

$R'(-4,-4)$ $P'(4,2)$

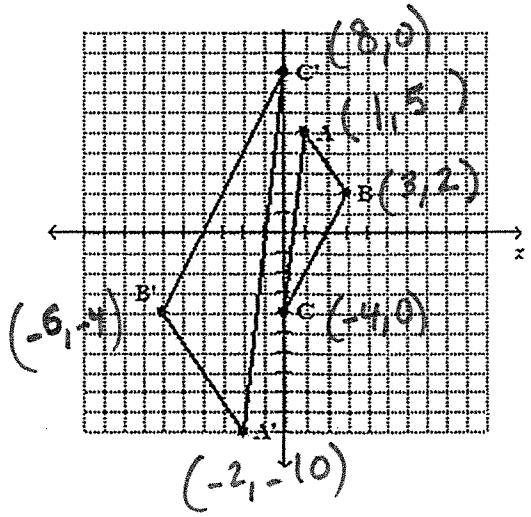
$Q'(4,-8)$

5) Reflect the given image across y=-4

$Q'(0,-8)$ $P'(-8,-10)$

$R'(0,-4)$

6) Describe the serious of transformations preformed in the below picture and write a rule describing them



$A(1,5)$ $B(3,2)$ $C(-4,0)$

$A'(-2,-10)$ $(-6,-4)$ $C(8,0)$

Dilated by 2. $(x,y) \rightarrow (2x,2y)$

Rotated by 180° $(2x,2y) \rightarrow (-2x,-2y)$

$$(x,y) \longrightarrow (-2x,-2y)$$