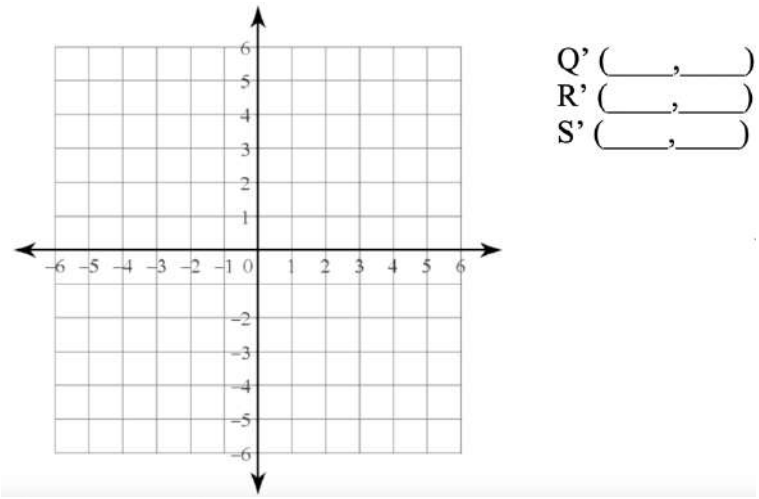
Geometry
Composite Rigid Motion

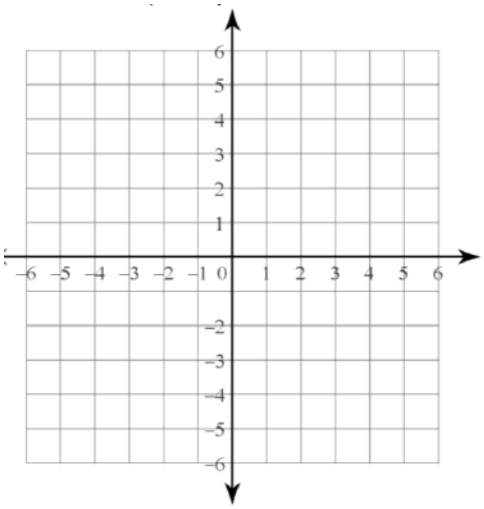
Name _____
Date _____ Per __

1) Translate ΔQRS if Q(4, 1), R(1, -2), S(2, 3) by the rule $T_{\langle -3,-4 \rangle}$



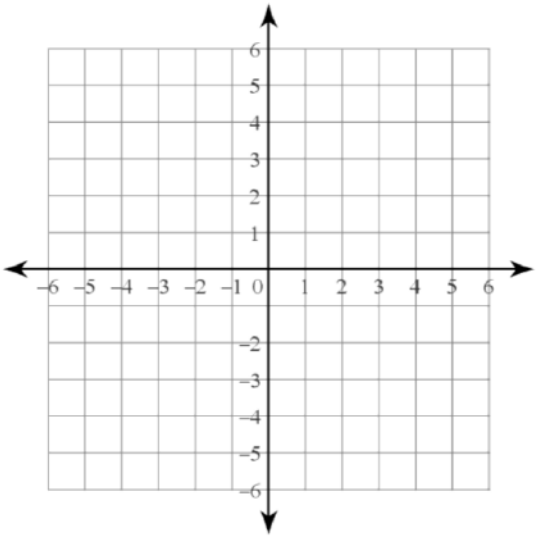
Q' (____,____)
R' (____,____)
S' (____,____)

2) Use $\Delta Q'R'S'$ from problem 1 to R_{x-axis}



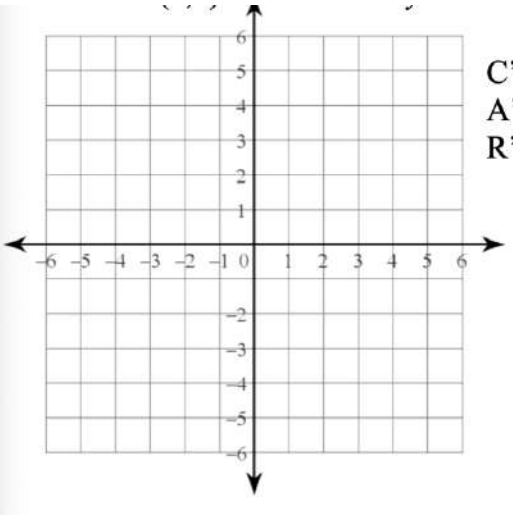
Q''(____,____)
R''(____,____)
S''(____,____)

3) Rotate ΔCAR if C(-1, 4), A(2, 3), R(-3, -2) using the rule $r_{(180°,O)}$



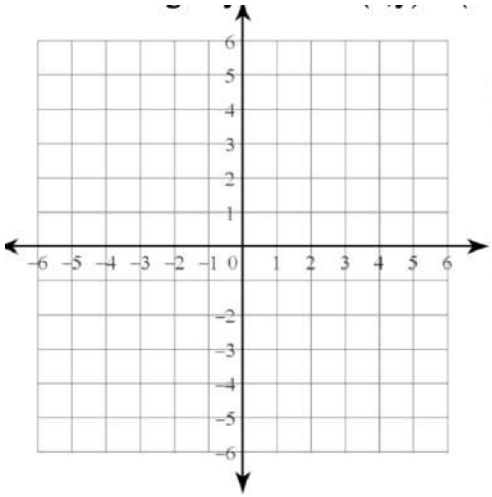
C'(____,____)
A'(____,____)
R'(____,____)

4) Reflect $\Delta C'A'R'$ using the rule $R_{y=x}$



C''(____,____)
A''(____,____)
R''(____,____)

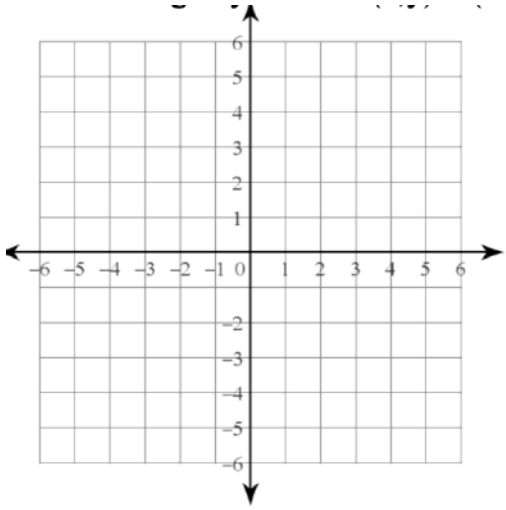
5) Given ΔTAB where T(2, 3), A(1, 1), B(4, -3) using the following transformation $(R_{x-axis} \circ r_{(270°,O)})$



T'(___,___)
A'(___,___)
B'(___,___)

T''(___,___)
A''(___,___)
B''(___,___)

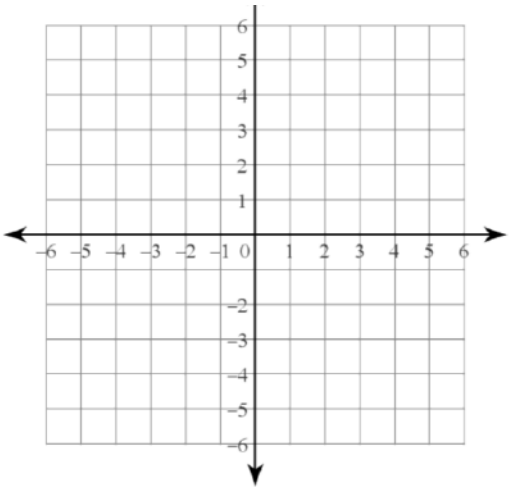
6. Given ΔTAB where T(2, 3), A(1, 1), B(4, -3) using the following Transformation $(T_{\langle -2,-1\rangle} \circ R_{y=2})$



T'(___,___)
A'(___,___)
B'(___,___)

T''(___,___)
A''(___,___)
B''(___,___)

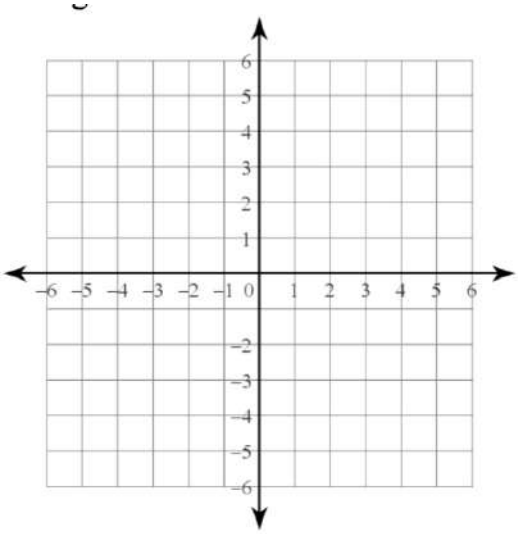
7) Given ΔALT where A(-5, -1), L(-3, -2) T(-3, 2) using the following transformation $\left(R_{y=-x} \circ r_{(90°,O)}\right)$



A' (____,____)
L' (____,____)
T' (____,____)

A''(____,____)
L''(____,____)
T''(____,____)

8) Given ΔTAB where T(2,3), A(1, 1), B(2, 0) using the following translation $(R_{y=1} \circ R_{y=-1)}$



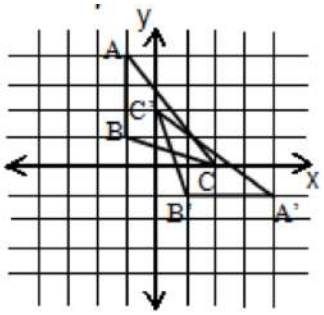
T' (____,____)
A' (____,____)
B' (____,____)

T''(____,____)
A''(____,____)
B''(____,____)

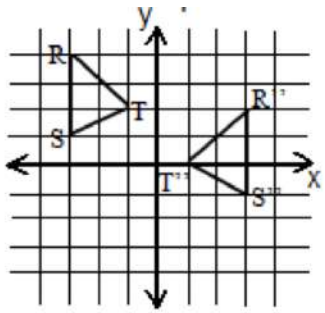
Write a single translation rule for the transformation from problem 8.

9) Identify the transformation(s) and if possible write the rule for the transformation

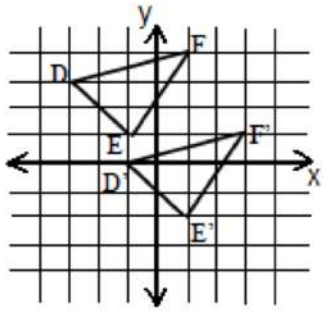
a.



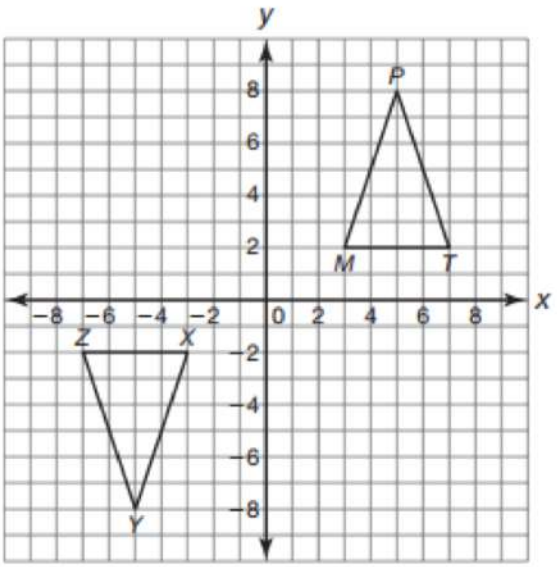
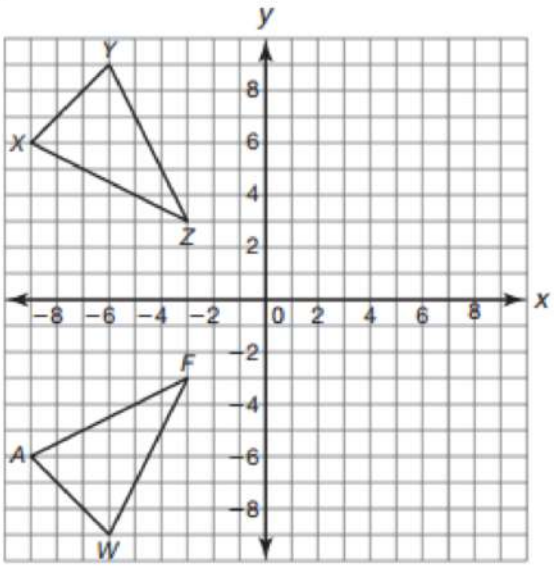
b.



c.



d.



e.