

Directions: Graph the image of each figure using the transformation given. Be sure to give the coordinates for the image points.

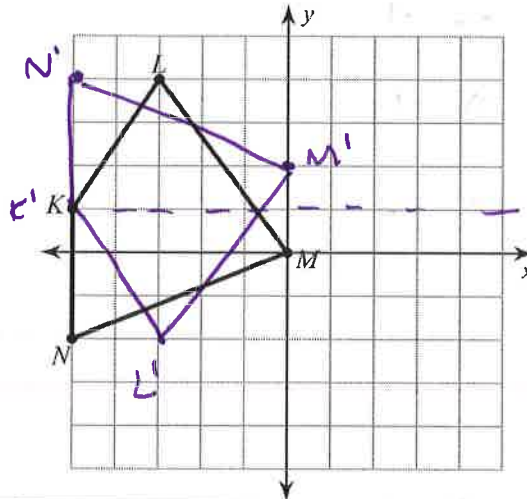
1. $R_{y=1}(KLMN)$

$K'(-5, 1)$

$L'(-3, -2)$

$M'(0, 2)$

$N'(-5, 4)$



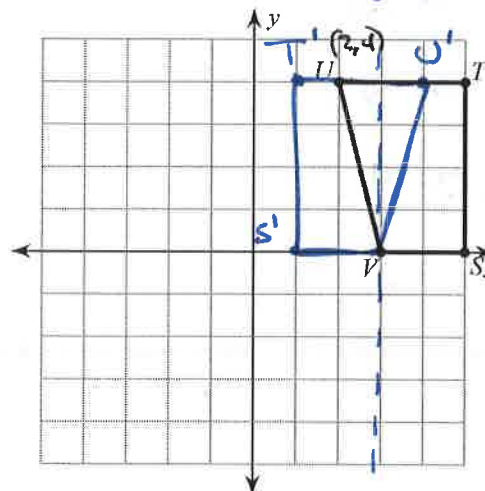
2. $R_{x=3}(UTSV)$

$U'(4, 4)$

$T'(1, 4)$

$S'(1, 0)$

$V'(3, 0)$

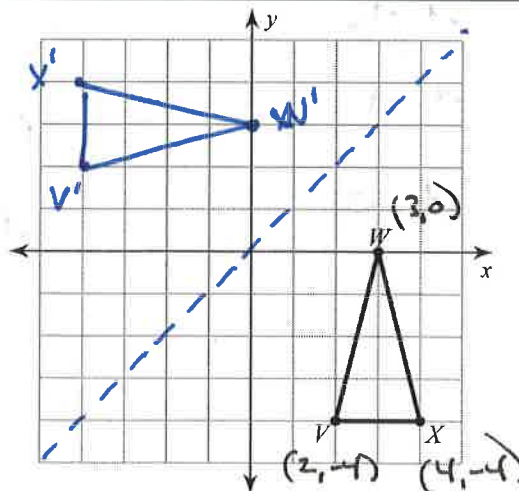


3. $R_{y=x}(\triangle VWX)$

$V'(-4, 2)$

$W'(-4, 4)$

$X'(0, 3)$



3.1-3.3 Practice

Name: _____

Period: _____

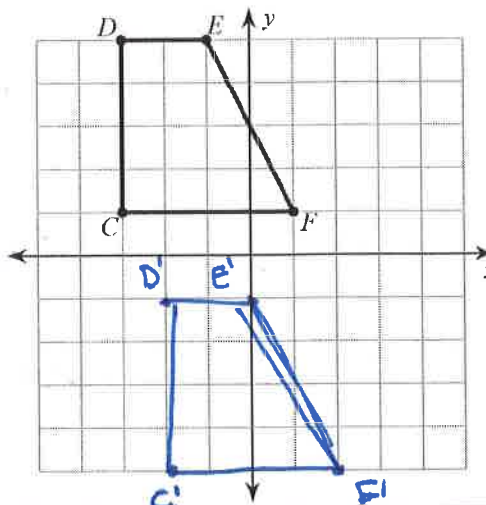
4. $T_{\langle 1, -6 \rangle}(CDEF)$

$C'(-2, -6)$

$D'(-2, -1)$

$E'(0, -1)$

$F'(2, -6)$

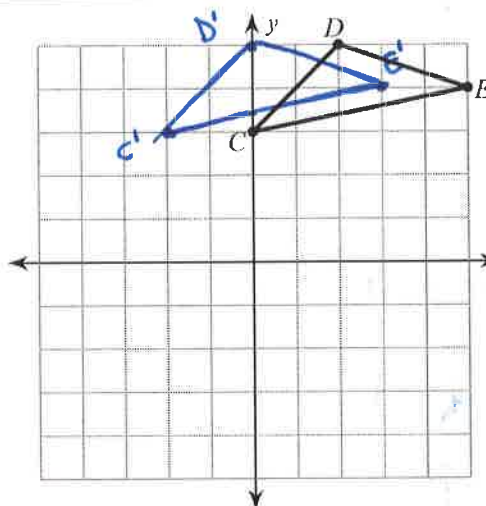


5. $T_{\langle -2, 0 \rangle}(\triangle CDE)$

$C'(-2, 3)$

$D'(0, 5)$

$E'(3, 4)$

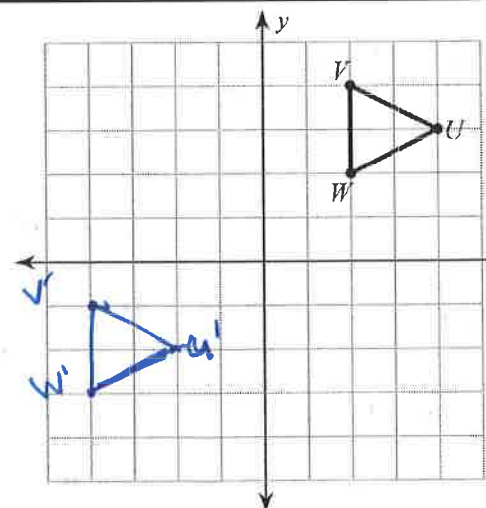


6. $T_{\langle -6, -5 \rangle}(\triangle UVW)$

$U'(-2, -2)$

$V'(-4, -1)$

$W'(-4, -3)$



3.1-3.3 Practice

Name: _____

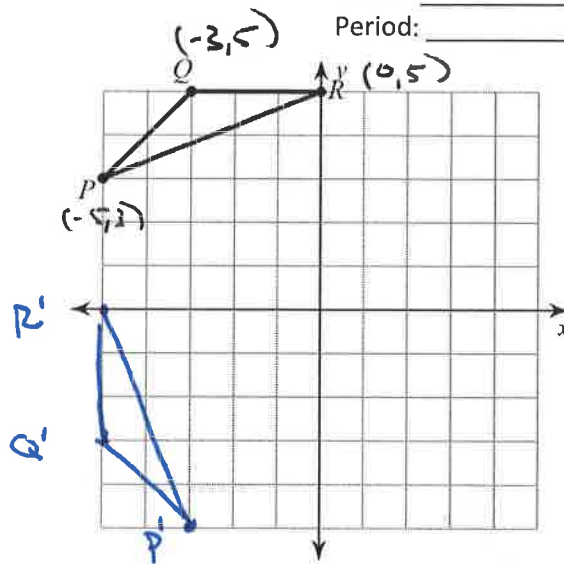
Period: _____

7. $r_{90^\circ}(\triangle PQR)$

$P'(-3, -5)$

$Q'(-5, -3)$

$R'(-5, 0)$

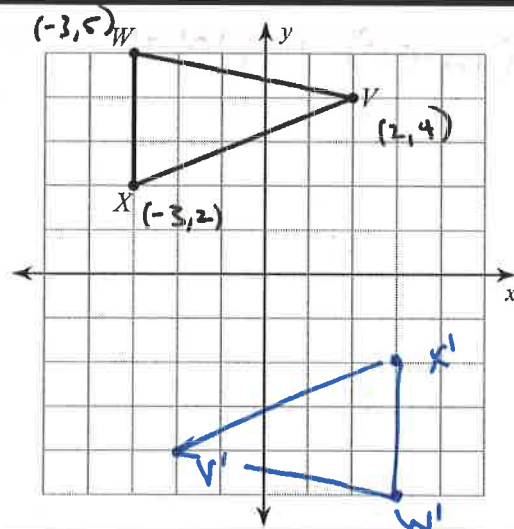


8. $r_{180^\circ}(\triangle VWX)$

$V'(-2, -4)$

$W'(3, -5)$

$X'(3, -2)$

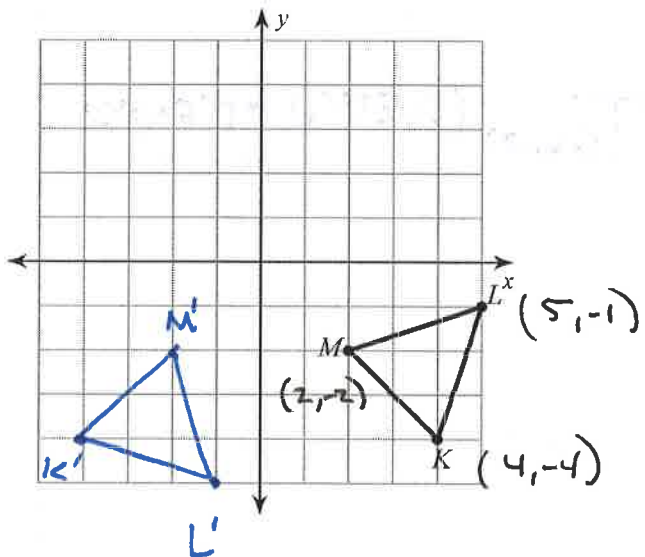


9. $r_{270^\circ}(\triangle KLM)$

$K'(-4, -4)$

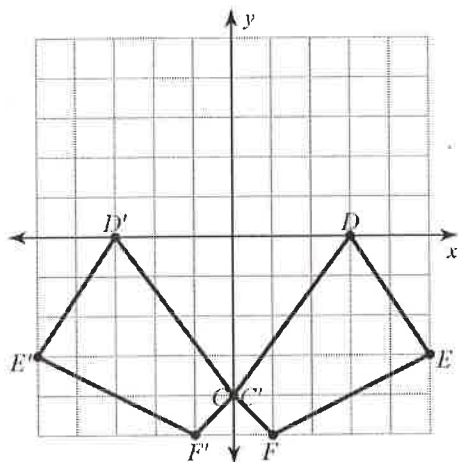
$L'(-1, -5)$

$M'(-2, -2)$



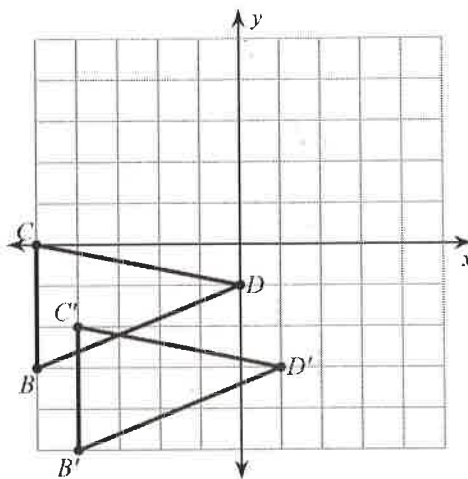
Write rules for the following transformations. Be sure to use the correct notation.

10.



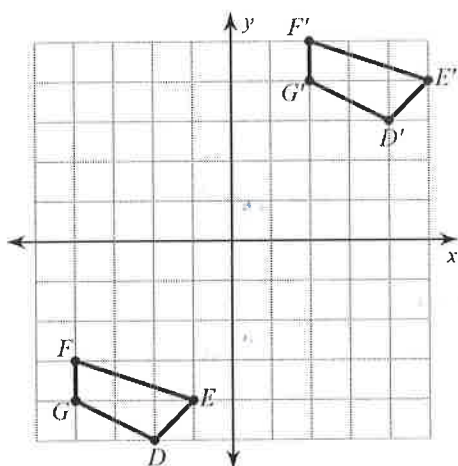
Rule: $R_{y\text{-axis}}(DEF) = D'E'F'$

11.



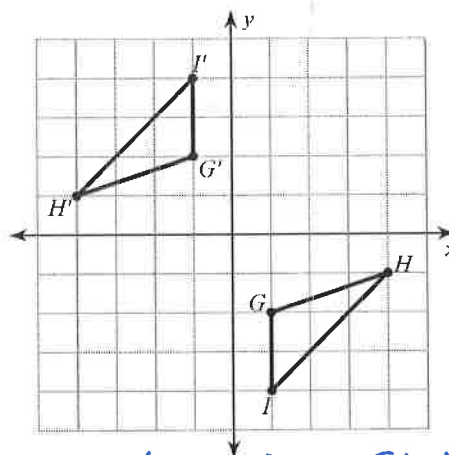
Rule: $T_{\langle 1, -2 \rangle}(ABC) = A'B'C'$

12.



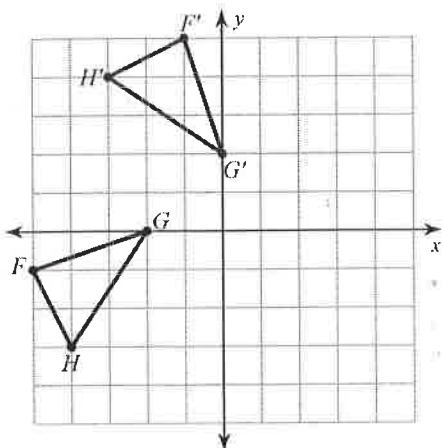
Rule: $T_{\langle 6, 8 \rangle}(DEF) = D'E'F'$

13.



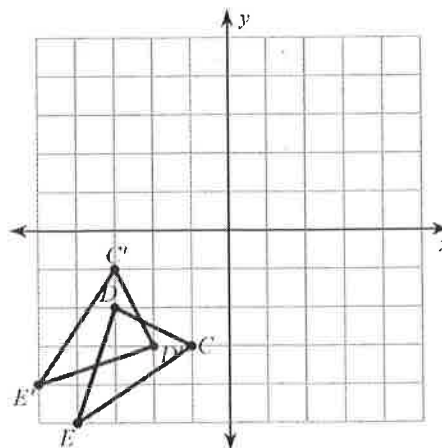
Rule: $R_{180^\circ}(GHI) = G'H'I'$

14.



Rule: $R_{90^\circ}(FGH) = F'G'H'$

15.



Rule: $R_{y=x}(CDE) = C'D'E'$