Name_____ Geometry Chapter 9 Transformations Extra Practice

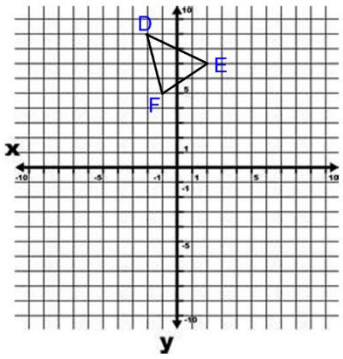
Graph the image of the figure using the transformation given.

1. $T_{\langle 5,1\rangle}(\Delta DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

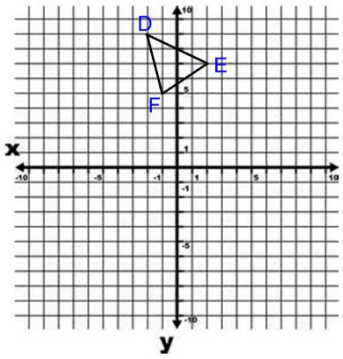


2. $R_{\langle y-axis\rangle}(\Delta DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

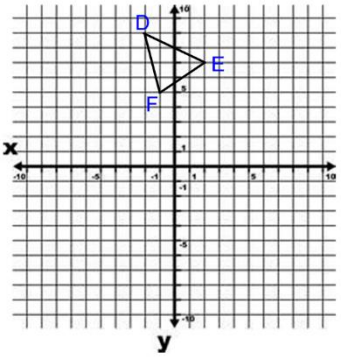


3. $R_{\langle x-axis\rangle}(DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

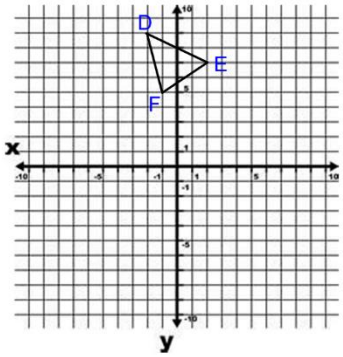


4. $R_{\langle y=-3\rangle}(DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

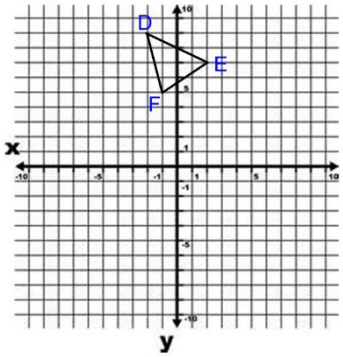


5. $R_{\langle x=-1\rangle}(DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

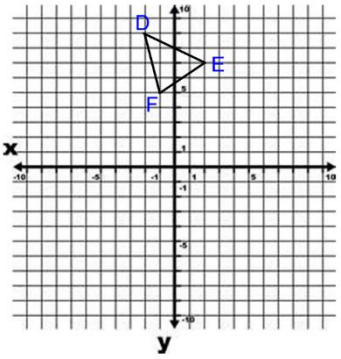


6. $r_{\langle 90°,0\rangle}(\Delta DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

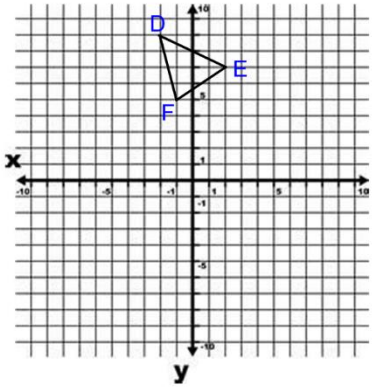


7. $r_{\langle 180°,0\rangle}(\Delta DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

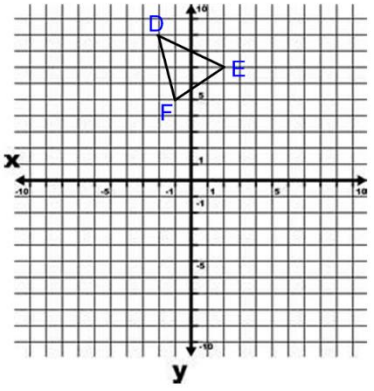


8. $r_{\langle 270°,0\rangle}(\Delta DEF)$

D_____ D'_____

E_____ E'_____

F_____ F'_____

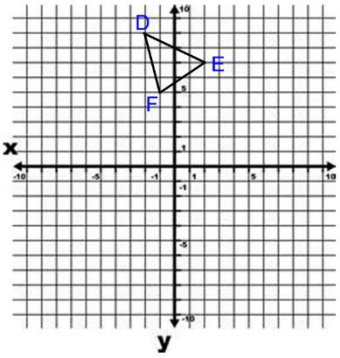


9. $\left(D_3 \circ T_{\langle 3,-4\rangle}\right)(\Delta DEF)$

D_____ D'_____ D''_____

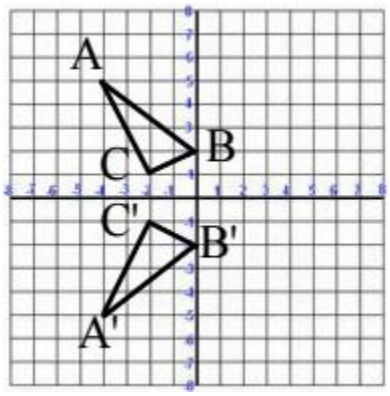
E_____ E'_____ E''_____

F_____ F'_____ F''_____

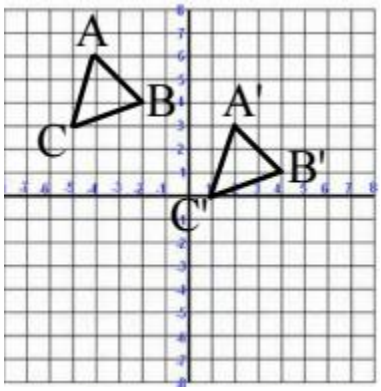


Write the rule for each transformation.

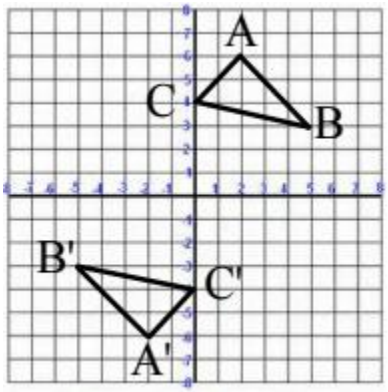
10. Rule_____



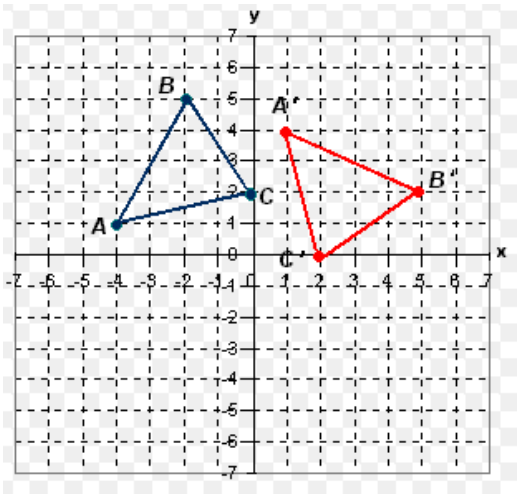
11. Rule_____



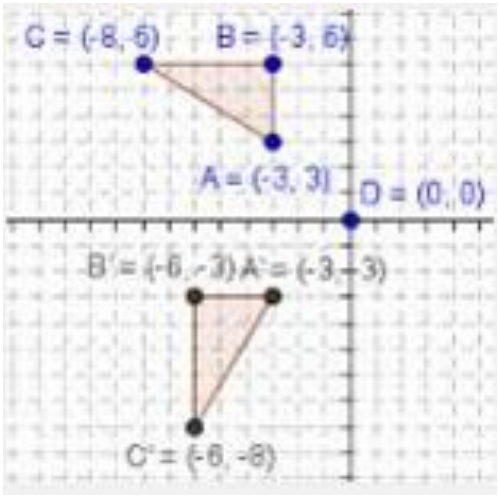
12. Rule_____



13. Rule_____

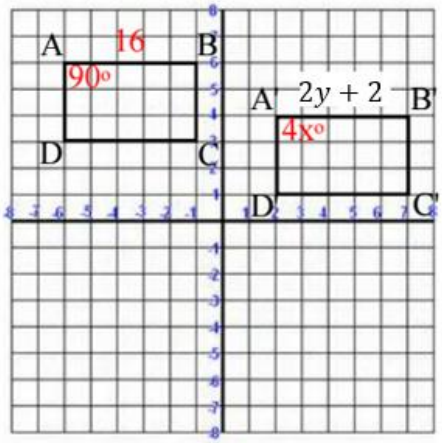


14. Rule_____



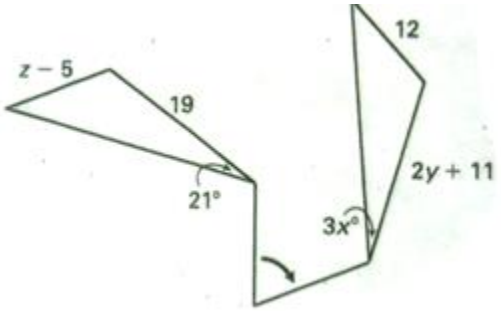
Find the values of the variables given the transformation is an isometry.

15.



$x =$ _____ $y =$ ____

16.



$x =$ _____ $y =$ ____ $z =$ ____