Key

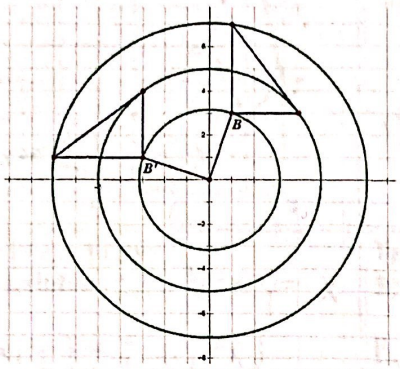
# Guess My Transformation(s)

**Match each description with its transformation. Each letter is only used once.**

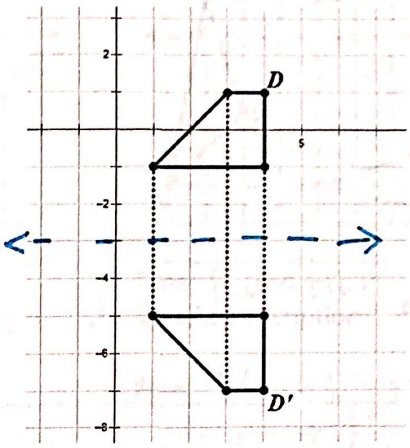
E The domain of a function is $\{T(-8,0), U(1,7)\}$. The range of the function is $\{T'(-2,0), U'(-11,7)\}$.

L $\Delta FGH$ is reflected across the y-axis and then reflected across the line $y = x$. Which single rigid transformation would produce the same image?

A




H




F What transformation maps the point $W(-4,4)$ to $W'(-4,4)$?

D $f(x,y) = (-x, y+7)$

I Transformation that moved every point the same distance and direction along congruent parallel lines with slope of $-\frac{1}{7}$.

K $R(-2,5) \rightarrow R'(6,3)$

B Quadrilateral AFHS where $A(-2,4), F(-2,2), H(0,2), S(-1,4)$ is reflected over line $y = -x$. The image is then rotated 270° about the origin. Which single rigid transformation would map the resulting image back onto quadrilateral AFHS?

G

| | |
|---|---|
| $W(-4,-4)$ | $W'(4,4)$ |
| $V(2,-5)$ | $V'(-2,5)$ |

C $\overline{AA'}$ has a slope of $-1$. $B(6,6)$ is the midpoint of $\overline{AA'}$ and the distance from $A$ to $B$ is equal to the distance from $A'$ to $B$.

J The orientation of $\Delta ABC$ changed after undergoing a rigid motion transformation to produce $\Delta A'B'C'$. The y-values of the coordinates became opposite.

| | |
|---|---|
| A. Rotation 90° about the origin | G. Rotation 180° around (0,0) |
| B. Reflection over y-axis | H. Reflection over line $y = -3$ |
| C. Reflection over the line $y = x$ | I. Translation down 1 unit and right 7 units |
| D. Reflection over the y-axis followed by a translation up 7 | J. Reflection over x-axis |
| E. Reflect over line $x = -5$ | K. Reflection over the y-axis followed by a translation right 4 and down 2. |
| F. Reflect over line $y = -x$ | L. Rotation 270° about the origin |