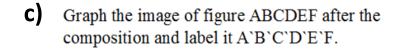# Mastery Check

a) $\triangle ABC$ has vertices
$A(4, 1)$, $B(-3, -2)$, and $C(6, -4)$. Apply a rotation of $270°$ and state the vertices of $\triangle A`B`C`$.

$A`(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$B`(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

$C`(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$

b) State the number of lines of symmetry for the figure.

c) Graph the image of figure ABCDEF after the composition and label it A`B`C`D`E`F.

Translation: $(x, y) \rightarrow (x, y - 3)$

Rotation: $90°$ about the origin