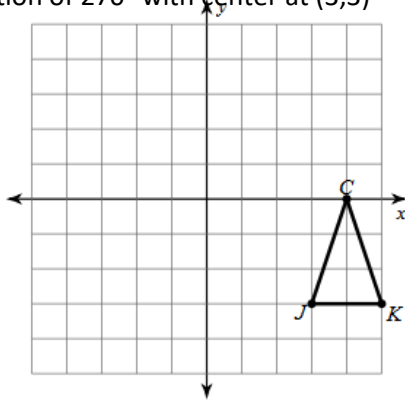


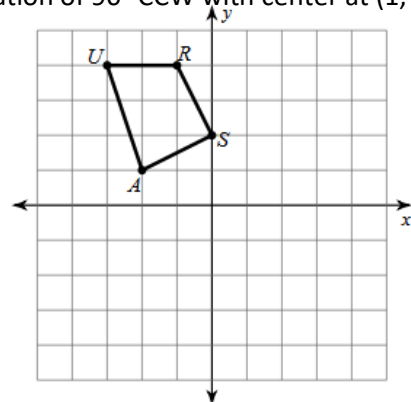
Complete the listed transformations.

Name _____ Block _____

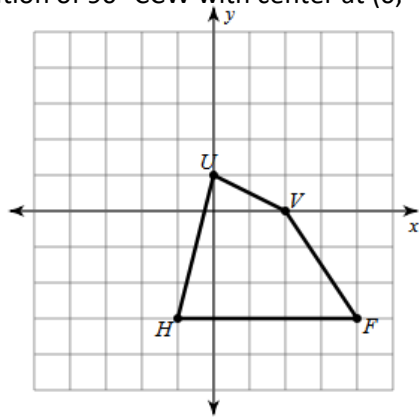
1. Rotation of 270° with center at $(3,3)$



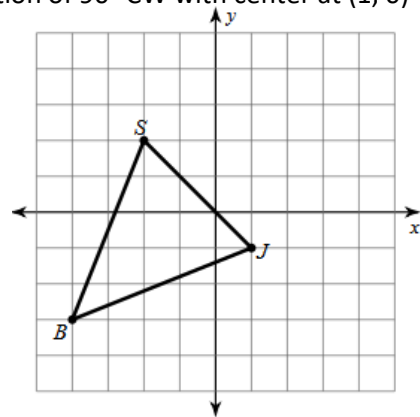
2. Rotation of 90° CCW with center at $(1, 3)$



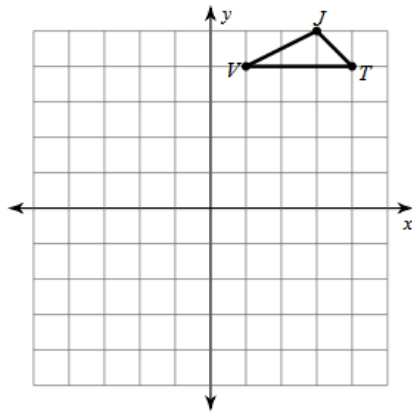
3. Rotation of 90° CCW with center at $(0, -2)$



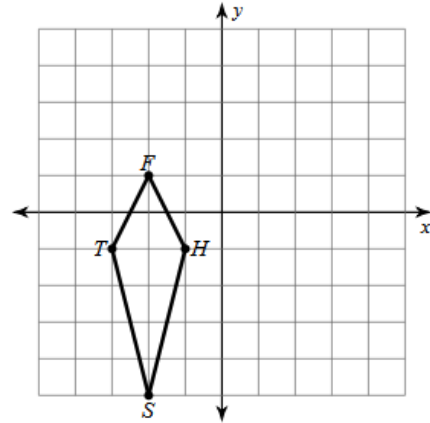
4. Rotation of 90° CW with center at $(1, 0)$



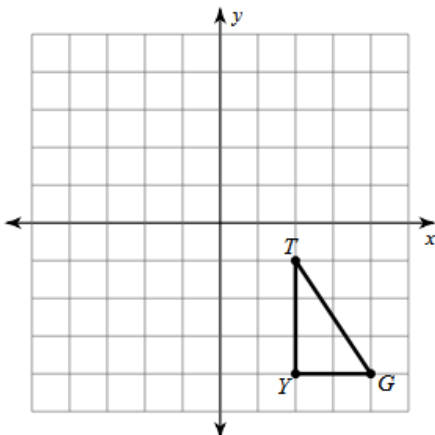
5. Reflection over $x=1$



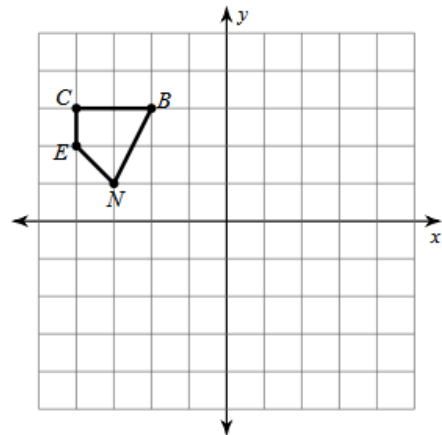
6. Reflection over $y=-1$



7. Reflection over $y=-3$



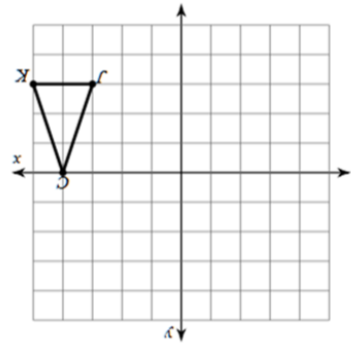
8. Reflection over $x=-1$



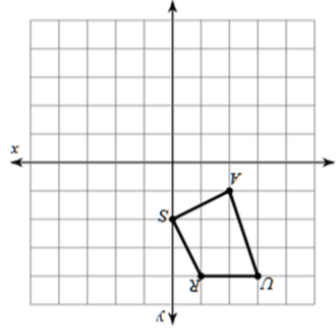
Examples

Rotation from a point

Rotation of 180° from center $(2, 1)$

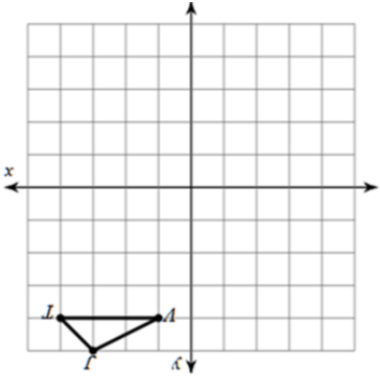


Rotation of 270° CCW
with origin at $(-1, 1)$



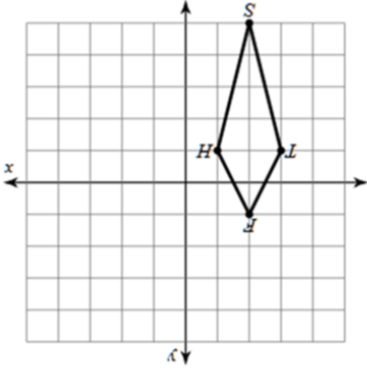
Reflection over given line

Reflect over $y = 2$



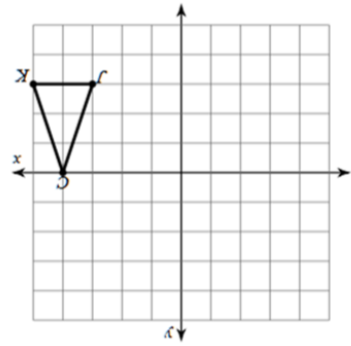
Reflection over given line

Reflect over $x = 2$

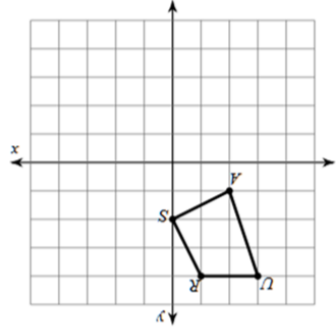


Rotation from a point

Rotation of 180° from center $(2, 1)$

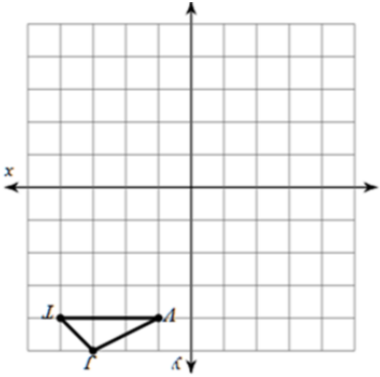


Rotation of 270° CCW
with origin at $(-1, 1)$



Reflection over given line

Reflect over $y = 2$



Reflection over given line

Reflect over $x = 2$

