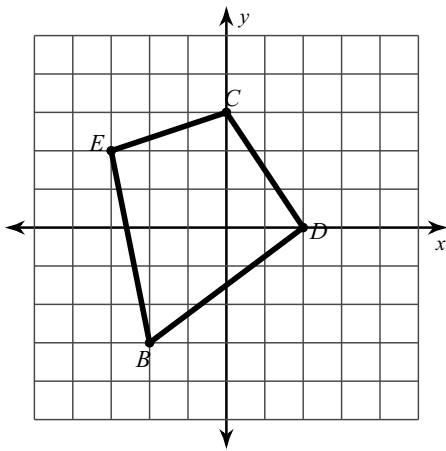
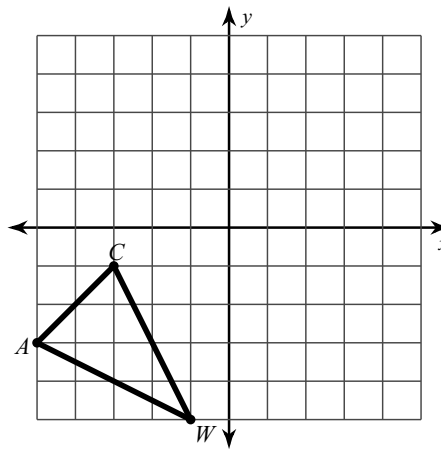


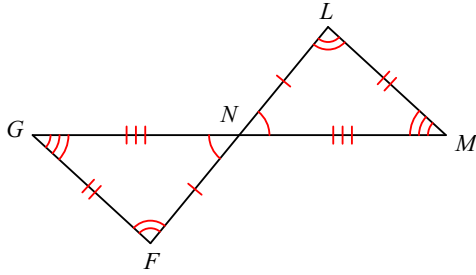
7.REV.1 ~ Lessons 7.1 - 7.6

Past due on _____ Period _____

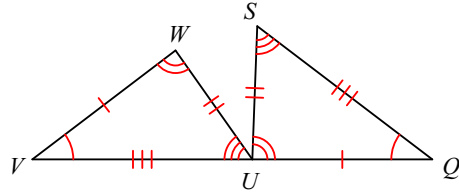
Determine the coordinates of each translated image without graphing.1) translation: 8 units left and 6 units down
 $W(3, 4), Y(3, 5), F(5, 5)$ 2) translation: 9 units right and 2 units up
 $M(-5, -5), P(-5, -4), B(-4, -4)$ **Determine the coordinates of each rotated image without graphing.**3) rotation 90° counterclockwise about the origin
 $X(2, -3), I(3, -2), E(3, -4)$ 4) rotation 180° about the origin
 $N(-5, -2), H(-3, -1), R(0, -3)$ 5) rotation 90° clockwise about the origin
 $T(-4, -3), M(-3, 0), L(0, -3)$ 6) rotation 90° counterclockwise about the origin
 $A(-3, -5), H(-4, -3), P(-1, -2)$ **Determine the coordinates of each reflected image without graphing.**7) reflection across the y-axis
 $I(2, 2), Y(4, 4), L(4, 2)$ 8) reflection across the x-axis
 $W(0, 1), N(5, 3), B(3, -1)$ 9) reflection across the x-axis
 $K(3, 1), T(4, 3), S(5, 2)$ 10) reflection across the y-axis
 $S(-4, -5), F(-3, -2), K(-1, -4)$ **Graph the image of the geometric figure that has been reflected over the given line.**11) reflection across $x = 1$ 12) reflection across $y = -2$ 13) Consider $\triangle JCS$ with the vertices $J(-5, -3)$, $C(-4, 2)$, and $S(6, 1)$. What are the coordinates of the image of $\triangle JCS$ after being reflected over the x -axis, translated 1 unit up and 8 units left, and then rotated 270° counterclockwise?

Write a triangle congruence statement for the triangles.

14)



15)



Complete each congruence statement by naming the corresponding angle or side.

16) $\triangle GFE \cong \triangle RQP$

$\overline{GF} \cong ?$

18) $\triangle GFE \cong \triangle EWW$

$\angle FEG \cong ?$

17) $\triangle FED \cong \triangle EFK$

$\angle DFE \cong ?$

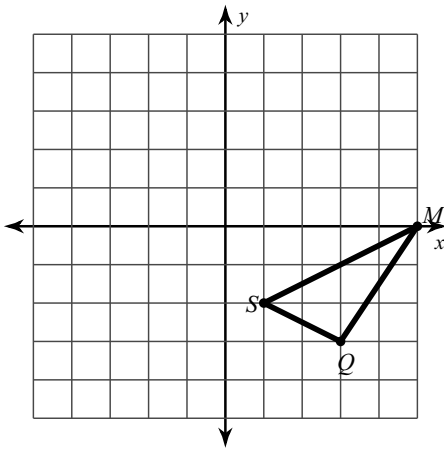
19) $\triangle DCB \cong \triangle VWX$

$\overline{BD} \cong ?$

Perform the transformation described on each given triangle. Then show that the triangles are congruent by the indicated method. Use the Distance Formula and a protractor when necessary.

20) rotation 90° counterclockwise about the origin

21) SAS



22) reflection across $x = 1$

23) ASA

