1) Translate ΔABC 3 units left.

Record the original coordinates of ΔABC as well as the coordinates of the translated ΔA'B'C'

A (,), B (,), C (,)
A' (,), B' (,), C' (,)

2) Translate trapezoid LMNO 2 units right and 5 units down.
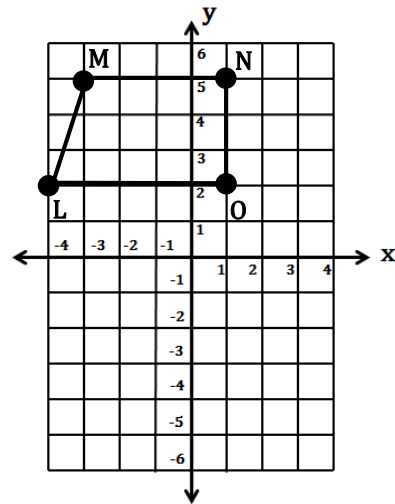

Record the original coordinates of trapezoid LMNO as well as the coordinates of the translated trapezoid L'M'N'O'

L(,), M(,), N(,), O(,)
L'(,), M'(,), N'(,), O'(,)

3) Graph ΔDEF with vertices
D(-3, -5), E(0, -1), F(3, -1)
Then, graph its reflection across the **x-axis.**
Find the coordinates of the reflected image.

D' (,), E' (,), F' (,)

4) Graph trapezoid WXYZ with vertices
W(-1, 3), X(-1, -4), Y(-4, -4), Z(-3, 3)
Then, graph its reflection across the **y-axis.**
Find the coordinates of the reflected image.

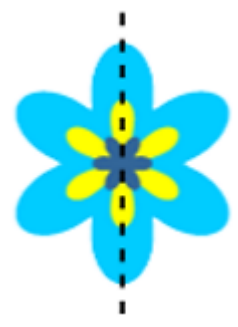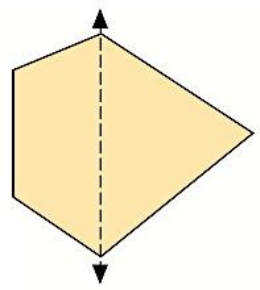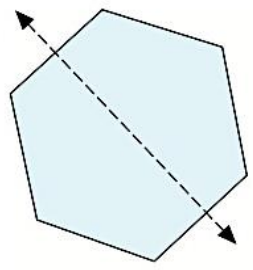W'(,), X' (,), Y' (,), Z' (,)
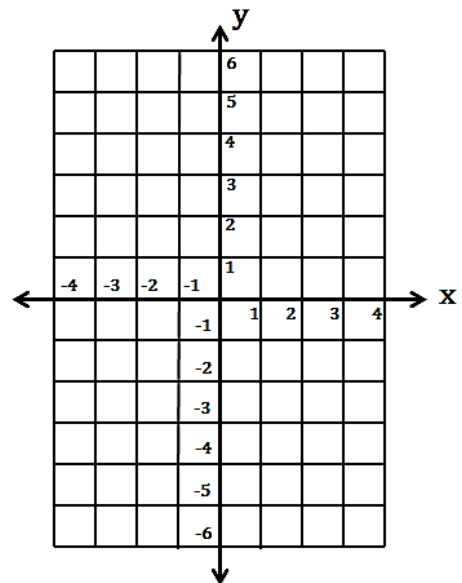
5) Draw all possible lines of symmetry for the pictures below.
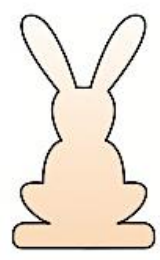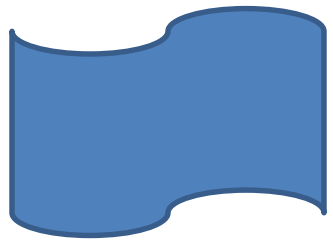
6) Are each of the dashed lines in the pictures below a line of symmetry? Answer yes or no for each one.

7) Determine which of the lettered figures on the right are translations of the blue shaded figure. Then, describe each one of these translations. (Example: 5 right, 2 up)