**CH 2 Math Art Transformations (30 points)**

Requirement:

1. At least 1 translation
2. At least 1 rotation
3. At least 1 dilation
4. At least 1 reflection
5. Should have at least 4 different shapes.

|  |  |  |  |
| --- | --- | --- | --- |
| **PRE-IMAGE** | **TYPE OF TRANSFORMATION** | **RULE NOTATION** | **IMAGE** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **PRE-IMAGE** | **TYPE OF TRANSFORMATION** | **RULE NOTATION** | **IMAGE** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

GRAPH PAPER PRINT: <http://www.mathematicalpractices.com/mp1e/wp-content/uploads/printable_manipulatives/math_tool_paper_p45.pdf>

**EXAMPLE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **PRE-IMAGE** | **TYPE OF TRANSFORMATION** | **RULE NOTATION** | **IMAGE** |
| **A (1, 3)**  **B (4, 3)**  **C (4, 5)** | **Reflect over the**  **x-axis** | **(x, y) 🡪 (x, -y)** | **A’ (1, -3)**  **B’ (4, -3)**  **C’ (4, -5)** |
| **A’ (1, -3)**  **B’ (4, -3)**  **C’ (4, -5)** | **Translate 3 units left** | **(x, y) 🡪 (x-3, y)** | **A’’ (-2, -3)**  **B” (1, -3)**  **C” (1, -5)** |

Use desmo:

<https://www.youtube.com/watch?v=eOgYKBUcJ6Q>

<https://www.youtube.com/watch?v=x3rEQ-YiTrA>