**Activity 1.2.3 Matching Pre-Images and Images**

You are to work together with two classmates to find matching sets between a starting polygon (pre-image), the translation described by a vector and a translated polygon (image).

Directions:

Cut out the cells below. One member will be given the set of starting polygons, another member will be given the set of vectors, and the remaining member will be given the set of translated polygons. Group members will work together to determine the 5 correct sets of the polygon, the vector, and the ensuing translated polygon from the unmatched set below and arrange them into matching rows in the blank table (Matched Set).

**Unmatched Sets**

|  |  |  |
| --- | --- | --- |
| Starting Polygon (Pre-Image) | Vector | Translated Polygon (Image) |
| A(-4, -2), B(1, 0), C(-1, -5) | [-1, -2] | A'(1, -5), B'(1, -3), C'(2, -5) |
| A(1, 0), B(2, 3), C(3, 2) | [2, -3] | A'(-4, 3), B'(1, 5), C'(-1, 0) |
| A(-1, -2), B(3, 1), C(3, -3) | [-1, -6] | A'(-1, -5), B'(0, -2), C'(1, -3) |
| A(-4, -1), B(-3, 3), C(-1, 0) |  [0, 5] | A'(-2, -4), B'(-1, 0), C'(1, -3) |
| A(2, 1), B(2, 3), C(3, 1) |  [-2, -5] | A'(-2, -4), B'(2, -1), C'(2, -5) |

**Matched Sets**

|  |  |  |
| --- | --- | --- |
| Starting Polygon (Pre-Image) | Vector | Translated Polygon (Image) |
|  |  |  |
|  |  |  |
|  |  |  |
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