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| **Reflect Across *x*-axis** | **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | |  |  | | --- | --- | | **Preimage** | **Reflected Image Across *x*-axis** | | **(-4, 1)** | (-4, -1) | | **(3, -2)** |  | | **(-2, -5)** |  | | **(4, 5)** |  | | **(0, 1)** |  | | **(-3, 0)** |  | |  | |  1. Graph all of the Preimage points (in table above) on the graph. 2. Reflect all those points across the *x*-axis and write the reflected image in the table provided. 3. What pattern do you see that relates the Preimage points to the Reflected Image points?   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. Create a rule that relates any point (*x, y*) to the reflection image across the *x*-axis. |
| **Reflect Across *y*-axis** | **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | |  |  | | --- | --- | | **Preimage** | **Reflected Image Across *y*-axis** | | **(-4, 1)** | (-4, -1) | | **(3, -2)** |  | | **(-2, -5)** |  | | **(4, 5)** |  | | **(0, 1)** |  | | **(-3, 0)** |  | |  | |  1. Graph all of the Preimage points (in table above) on the graph. 2. Reflect all those points across the *y*-axis and write the reflected image in the table provided. 3. What pattern do you see that relates the Preimage points to the Reflected Image points?   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. Create a rule that relates any point (*x, y*) to the reflection image across the *y*-axis. |

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| **Reflect Across *y = x*** | **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | |  |  | | --- | --- | | **Preimage** | **Reflected Image Across *y = x*** | | **(-4, 1)** | (-4, -1) | | **(3, -2)** |  | | **(-2, -5)** |  | | **(4, 5)** |  | | **(0, 1)** |  | | **(-3, 0)** |  | |  | |  1. Graph all of the Preimage points (in table above) on the graph. 2. Draw the line represented by ***y* = *x***. 3. Reflect all those points across the *line* ***y = x*** and write the reflected image in the table provided. 4. What pattern do you see that relates the Preimage points to the Reflected Image points?   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. Create a rule that relates any point (*x, y*) to the reflection image across the *line* ***y = x***. |
| **Reflect Across *y* = -x** | **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | |  |  | | --- | --- | | **Preimage** | **Reflected Image Across *y* = -x** | | **(-4, 1)** | (-4, -1) | | **(3, -2)** |  | | **(-2, -5)** |  | | **(4, 5)** |  | | **(0, 1)** |  | | **(-3, 0)** |  | |  | |  1. Graph all of the Preimage points (in table above) on the graph. 2. Draw the line represented by ***y = -x****.* 3. Reflect all those points across the *line* ***y = -x*** and write the reflected image in the table provided. 4. What pattern do you see that relates the Preimage points to the Reflected Image points?   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. Create a rule that relates any point (*x, y*) to the reflection image across the *line* ***y = -x***. |