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| **Reflection:** *Flip it!*    **To describe in full you need:**   * The equation of the mirror line; *e.g. x = -2*   ***Hints:***   * *You are not allowed a mirror in an exam. Use folded tracing paper.* * *If the mirror line is diagonal, turn your page to make it vertical* | **Rotation:** *Twist it!*    **To describe in full you need:**   * The centre of rotation; *e.g. (4,1)* * The angle of rotation; *e.g. 90°* * The direction of rotation; *e.g. clockwise*   ***Hints:***   * *Ask for tracing paper* |
| **Translation:** *Slide it!*    **To describe in full you need:**   * The number of squares moved up/down * The number of squares moved left/right * State this using a vector; e.g.   ***Hints***   * *Ask for tracing paper* * *Draw the vector to check* |  |

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| **Reflect A in the line x = -1** | **Reflect A in the line y = 3** |
| **Reflect A in the line y = x** | **Reflect A in the line x = 2** |
| **Reflect A in the line y = 3** | **Reflect A in the line y = -x** |

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| **Rotate A 90° clockwise about (2,1)** | **Rotate A 90° anticlockwise about (1,0)** |
| **Rotate A 180° about (0,0)** | **Rotate A 90° clockwise about (1,3)** |
| **Rotate A 270° clockwise about (3,2)** | **Rotate A 90° anticlockwise about (2,-1)** |

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| Translate A by the vector . Label the image B.  Translate A by the vector . Label the image C.  Translate A by the vector . Label the image D.  Translate A by the vector . Label the image E. |
| Translate A by the vector . Label the image B.  Translate A by the vector . Label the image C.  Translate A by the vector . Label the image D.  Translate A by the vector . Label the image E. |

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