Q1: (1,3)

Q2: (-1,2)

Q3: (-√2/2,√2/2)

Q4:

MAB:

| cos(135) | -sin(135) | 3 |
| --- | --- | --- |
| sin(135) | cos(135) | 1 |
| 0 | 0 | 1 |

=

| -0.707 | -0.707 | 3 |
| --- | --- | --- |
| 0.707 | -0.707 | 1 |
| 0 | 0 | 1 |

Q5:

MAO:

| cos(90) | -sin(90) | 1 |
| --- | --- | --- |
| sin(90) | cos(90) | -2 |
| 0 | 0 | 1 |

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| 1 | 0 | 1 |
| --- | --- | --- |
| 0 | 1 | -2 |
| 0 | 0 | 1 |

MBA:

| cos(225) | -sin(225) | -3 |
| --- | --- | --- |
| sin(225) | cos(225) | -1 |
| 0 | 0 | 1 |

=

| -0.707 | 0.707 | -3 |
| --- | --- | --- |
| -0.707 | -0.707 | -1 |
| 0 | 0 | 1 |