## Combining Matrices

Using the matrices below, which can you combine and in what order, to make the following transformations?

- Rotation of 180
- Identity
- Reflection in the $y$-axis
- Reflection in the line $y=-x$

Which can you make in more than one way?
Justify your answers using matrix multiplication.

(Transformations in white text underneath matrices. Highlight then change font colour to see them)

