

a) Use matrices to show that rotating anti-clockwise through 90° about the origin twice is equivalent to a rotation of 180° about the origin.

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b) Use matrices to show that a reflection in the x -axis followed by a reflection in the y -axis is equivalent to a rotation of 180° about the origin.

b) Use matrices to show that a reflection in the x -axis followed by a reflection in the y -axis is equivalent to a rotation of 180° about the origin.

c) Use matrices to show that rotating clockwise through 90° about the origin three times is equivalent to a rotation of 90° anti-clockwise about the origin.

c) Use matrices to show that rotating clockwise through 90° about the origin three times is equivalent to a rotation of 90° anti-clockwise about the origin.