**7E 3D Transformations**

1. A transformation U, in three dimensions, represents a reflection in the plane .
2. Write down the matrix that represents this transformation.
3. Find the image of the point under this transformation

Reflection in the plane (

Reflection in the plane (

Reflection in the plane (

1. A transformation U, in three dimensions, represents a 90˚ anticlockwise rotation around the x-axis
2. Write down the matrix that represents this transformation.
3. Find the image of the point under this transformation

Rotation anticlockwise around the x-axis

Rotation anticlockwise around the y-axis

Rotation anticlockwise around the z-axis

1. The matrix .
2. Describe the transformation represented by .
3. Find the image of the point with coordinates under the transformation represented by .