

Matrices – AS Further Mathematics P1

1. June/2022/Paper_7366/01/No.3

Which of the following transformations is represented by the matrix $\begin{bmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$?

Tick (✓) one box.

[1 mark]

Rotation of 180° about the x -axis

Reflection in the plane $x = 0$

Rotation of 180° about the y -axis

Reflection in the plane $y = 0$

2. June/2022/Paper_7366/01/No.6

The matrix A is given by

$$A = \begin{bmatrix} 5 & 2 \\ -3 & 4 \end{bmatrix}$$

(a) Find $\det A$

[1 mark]

(b) Find A^{-1}

[1 mark]
