## <u>Matrices – AS Further Mathematics P1</u>

1. June/2022/Paper\_7366/01/No.3

	[1	0	0]
Which of the following transformations is represented by the matrix	0	-1	0 ?
	0	0	1
Tick (✓) one box.			
			[1 mark]
Rotation of 180° about the <i>x</i> -axis			
Reflection in the plane $x = 0$			
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Rotation of 180° about the <i>y</i> -axis			
Reflection in the plane $v = 0$			

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The matrix **A** is given by

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

(a)	Find det A	[1 mark
(b)	Find A <sup>-1</sup>	
(b)	riliu A	[1 mark

Siven that $AB = \begin{bmatrix} 9 \\ 5 \end{bmatrix}$	$\begin{bmatrix} 6 \\ 12 \end{bmatrix}$ and $\mathbf{M} = 2\mathbf{A} + \mathbf{B}$ find the matrix $\mathbf{M}$	<b>5</b> 2
		[3 marks