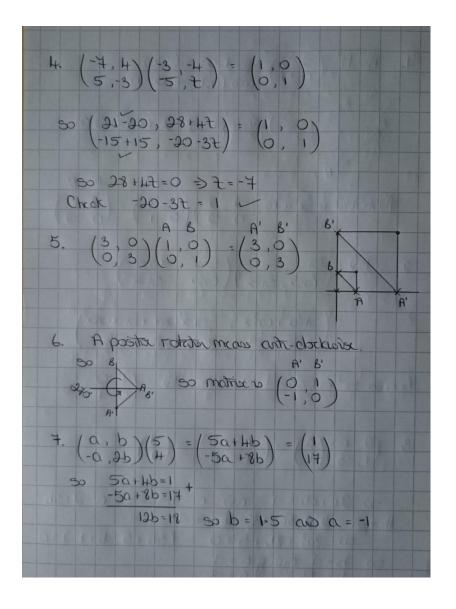
Further Maths GCSE Matrices Answers

1. As M:
$$(3,0) \Rightarrow (1,0) \Rightarrow (3,0)$$

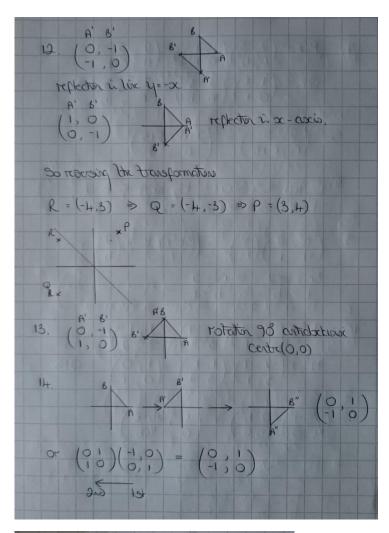
1. As M: $(3,0) \Rightarrow (3,0) \Rightarrow (3,0)$

2. PQ = $(3xx, coxx) = (3xx + coxx) = (3x$



8.
$$PQ = \begin{pmatrix} 2 & 3 \\ a, b \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 5 \\ a, a+b \end{pmatrix}$$
 $QP = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 2 & 3 \\ a & b \end{pmatrix} = \begin{pmatrix} 2+a & 3+b \\ a & b \end{pmatrix}$

So $\begin{pmatrix} 2 & 5 \\ 0 & (a+b) \end{pmatrix} = \begin{pmatrix} 2+a & 3+b \\ a & b \end{pmatrix}$
 $QP = \begin{pmatrix} 2+a & 3+b \\ a & b \end{pmatrix}$
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15.
$$(1, a)(b) = (5)$$

 $\Rightarrow b + 5a = 5$
 $10 = b \Rightarrow a = -1$