

Using the Identity Matrix

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(b) Given that $D - A = I$, find D
(c) Given that $B + 2I = E$, find E

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$$\begin{pmatrix} x & -2 \\ -7 & y \end{pmatrix} \begin{pmatrix} 3 & 2 \\ 7 & 5 \end{pmatrix} = I$$

Find the values of x and y .

- (b) Given that

$$\begin{pmatrix} 4 & -1 \\ -7 & 2 \end{pmatrix} \begin{pmatrix} 2 & p \\ q & 4 \end{pmatrix} = I$$

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(b) Given that $2A + I^2 = \begin{pmatrix} 6 & -4 \\ -1 & 5 \end{pmatrix}$

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find the values of a, b, c and d .

(b) Given that $\begin{pmatrix} -5 & 3 \\ 3 & -2 \end{pmatrix} \begin{pmatrix} a & b \\ c & d \end{pmatrix} = I$

find the values of a, b, c and d .

- (c) Given that

$$\begin{pmatrix} x & \frac{1}{2} \\ -2 & y \end{pmatrix} \begin{pmatrix} 1 & z \\ -\frac{2}{3} & -\frac{4}{9} \end{pmatrix} = I^2$$

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