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Math\_Questions\_0023

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Find the size of each matrix, find the values of any variables and identify any square, row or column matrices.

12.  $\begin{bmatrix} 2 & 3 \\ 5 & 9 \end{bmatrix} = \begin{bmatrix} a & b \\ c & 9 \end{bmatrix}$

Find each of the following if it exists

$$A = \begin{bmatrix} 4 & 10 \\ -2 & -3 \\ 6 & 9 \end{bmatrix} \quad B = \begin{bmatrix} 2 & 3 & -2 \\ 2 & 4 & 0 \\ 0 & 1 & 2 \end{bmatrix} \quad C = \begin{bmatrix} 5 & 0 \\ -1 & 3 \\ 4 & 7 \end{bmatrix} \quad D = \begin{bmatrix} 6 \\ 1 \\ 0 \end{bmatrix}$$

18.  $3C + 2A$

19.  $2A - 5C$

22.  $AC$

23.  $ED$

28.  $B^{-1}$

Find the inverse of each matrix that has an inverse.

32.  $\begin{bmatrix} 2 & 0 \\ -1 & 5 \end{bmatrix}$