Addition of matrices

Find the sum of the matrices:

$$\begin{bmatrix} 26 & 19 \\ 8 & 4 \\ -5 & -9 \end{bmatrix} + \begin{bmatrix} -14 & -36 \\ 7 & 3 \\ 4 & 18 \end{bmatrix} =$$

$$\begin{bmatrix} -23 & -16 & 38 \\ 2 & \dfrac{3}{7} & -6 \end{bmatrix} +$$

$$\begin{bmatrix} 5 & 7 \end{bmatrix} + \begin{bmatrix} -17 & 23 \end{bmatrix} =$$

$$\begin{bmatrix} 27 & 13 & -16 \\ -8 & 12 & -28 \\ 4 & 9 & 44 \end{bmatrix} +$$

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$$\begin{bmatrix} -5 & 8 & 7 \\ -12 & 18 & 36 \end{bmatrix} + \begin{bmatrix} 20 & 4 & 14 \\ 27 & 19 & -43 \end{bmatrix} =$$

Answer key

| **Addition of matrices** | Sheet 6 |

$$\begin{bmatrix} 26 & 19 \\ 8 & 4 \\ -5 & -9 \end{bmatrix} + \begin{bmatrix} -14 & -36 \\ 7 & 3 \\ 4 & 18 \end{bmatrix} = \begin{bmatrix} 12 & -17 \\ 15 & 7 \\ -1 & 9 \end{bmatrix}$$

$$\begin{bmatrix} -23 & -16 & 38 \\ 2 & \dfrac{3}{7} & -6 \end{bmatrix} + \begin{bmatrix} 26 & \\ -15 & \end{bmatrix}$$

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$$\begin{bmatrix} 5 & 7 \end{bmatrix} + \begin{bmatrix} -17 & 23 \end{bmatrix} = \begin{bmatrix} -12 \end{bmatrix}$$

$$\begin{bmatrix} 27 & 13 & -16 \\ -8 & 12 & -28 \\ 4 & 9 & 44 \end{bmatrix} + \begin{bmatrix} 18 & -5 \\ -5 & 17 \\ -8 & -9 \end{bmatrix}$$

$$\begin{bmatrix} -5 & 8 & 7 \\ -12 & 18 & 36 \end{bmatrix} + \begin{bmatrix} 20 & 4 & 14 \\ 27 & 19 & -43 \end{bmatrix} = \begin{bmatrix} 15 & 12 & 21 \\ 15 & 37 & -7 \end{bmatrix}$$