

## Addition of matrices

Find the sum of matrices:

$$\begin{bmatrix} 1 & 20 & -1 \\ 2 & -1 & 5 \\ 6 & 7 & 8 \end{bmatrix} + \begin{bmatrix} 5 & 7 & 9 \\ -8 & -7 & 12 \\ -2 & 15 & -2 \end{bmatrix} =$$

$$\begin{bmatrix} 1 & -5 \\ -13 & 8 \end{bmatrix} + \begin{bmatrix} 2 & - \\ 5 & - \end{bmatrix} =$$

$$\begin{bmatrix} -1 & 4 & -7 \\ 2 & -5 & 9 \\ -3 & 6 & -11 \end{bmatrix} + \begin{bmatrix} 2 & - \\ 17 & - \end{bmatrix} =$$

$$\begin{bmatrix} -1 & -4 \\ 2 & -1 \end{bmatrix} + \begin{bmatrix} 2 & - \\ 17 & - \end{bmatrix} =$$

$$\begin{bmatrix} 13 & \frac{5}{2} & 7 \\ 3 & -8 & 3 \\ 6 & 4 & -2 \end{bmatrix} + \begin{bmatrix} 5 & 2 & 8 \\ -2 & 18 & -9 \end{bmatrix} =$$

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## Answer key

## Addition of matrices

Sheet 2

$$\begin{bmatrix} 1 & 20 & -1 \\ 2 & -1 & 5 \\ 6 & 7 & 8 \end{bmatrix} + \begin{bmatrix} 5 & 7 & 9 \\ -8 & -7 & 12 \\ -2 & 15 & -2 \end{bmatrix} = \begin{bmatrix} 6 & 27 & 8 \\ -6 & -8 & 17 \\ 4 & 22 & 6 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -5 \\ -13 & 8 \end{bmatrix} + \begin{bmatrix} 2 & - \\ 5 & - \end{bmatrix}$$

$$\begin{bmatrix} -1 & 4 & -7 \\ 2 & -5 & 9 \\ -3 & 6 & -11 \end{bmatrix} + \begin{bmatrix} - \\ - \\ - \end{bmatrix}$$

$$\begin{bmatrix} -1 & -4 \\ 2 & -1 \end{bmatrix} + \begin{bmatrix} 2 & - \\ 17 & - \end{bmatrix}$$

$$\begin{bmatrix} 13 & \frac{5}{2} & 7 \\ 3 & -8 & 3 \\ 6 & 4 & -2 \end{bmatrix} + \begin{bmatrix} - \\ 5 & 2 & 8 \\ -2 & 18 & -9 \end{bmatrix} = \begin{bmatrix} - & - & - \\ 8 & -6 & 11 \\ 4 & 22 & -11 \end{bmatrix}$$

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