

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Subtraction of matrices

Sheet 7

Subtract the following matrices:

$$\text{Let } A = \begin{bmatrix} 6 & 7 & -2 & 4 & 9 \\ 12 & -3 & 8 & 13 & 1 \end{bmatrix} \text{ and } B = \begin{bmatrix} -4 & 3 & 5 & 2 & 7 \\ 1 & -4 & 32 & 21 & 8 \end{bmatrix}. \text{ Find } A-B.$$

$$\text{Let } A = \begin{bmatrix} 7 & 6 & -5 & 3 \end{bmatrix} \text{ and } B = \begin{bmatrix} \sqrt{3} & 15 & -21 & 12 \end{bmatrix}. \text{ Find } A-B.$$

$$\text{Let } A = \begin{bmatrix} \frac{3}{2} & 8 \\ -4 & 12 \\ -18 & 6 \\ 5 & -1 \\ -21 & 5 \end{bmatrix} \text{ and } B = \begin{bmatrix} 1 & -7 \\ 3 & 2 \\ -6 & 5 \\ 2 & -3 \\ -1 & 22 \end{bmatrix}. \text{ Find } A-B.$$

$$\text{Let } A = \begin{bmatrix} 21 & 38 \\ 40 & 27 \\ 37 & 28 \\ 42 & 35 \\ 12 & 18 \end{bmatrix} \text{ and } B = \begin{bmatrix} 17 & 29 \\ 34 & 12 \\ 14 & 37 \\ 2 & 18 \\ -6 & 29 \end{bmatrix}. \text{ Find } A-B.$$

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Answer key

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$$\begin{bmatrix} 10 & 4 & -7 & 2 & 2 \\ 11 & 1 & -24 & -8 & -7 \end{bmatrix}$$

$$[7-\sqrt{3} \quad -9 \quad 16 \quad -9]$$

$$\begin{bmatrix} \frac{1}{2} & 15 \\ -7 & 10 \\ -12 & 1 \\ 3 & 2 \\ -20 & -17 \end{bmatrix}$$

$$\begin{bmatrix} 4 & 9 \\ 6 & 15 \\ 23 & -9 \\ 40 & 17 \\ 18 & -11 \end{bmatrix}$$