

## EXERCISE 3.2

1. Let  $A = \begin{bmatrix} 2 & 4 \\ 3 & 2 \end{bmatrix}$ ,  $B = \begin{bmatrix} 1 & 3 \\ -2 & 5 \end{bmatrix}$ ,  $C = \begin{bmatrix} -2 & 5 \\ 3 & 4 \end{bmatrix}$

Find each of the following:

(i)  $A + B$

(ii)  $A - B$

(iii)  $3A - C$

(iv)  $AB$

(v)  $BA$

2. Compute the following:

(i)  $\begin{bmatrix} a & b \\ -b & a \end{bmatrix} + \begin{bmatrix} a & b \\ b & a \end{bmatrix}$

(ii)  $\begin{bmatrix} a^2 + b^2 & b^2 + c^2 \\ a^2 + c^2 & a^2 + b^2 \end{bmatrix} + \begin{bmatrix} 2ab & 2bc \\ -2ac & -2ab \end{bmatrix}$

(iii)  $\begin{bmatrix} -1 & 4 & -6 \\ 8 & 5 & 16 \\ 2 & 8 & 5 \end{bmatrix} + \begin{bmatrix} 12 & 7 & 6 \\ 8 & 0 & 5 \\ 3 & 2 & 4 \end{bmatrix}$

(iv)  $\begin{bmatrix} \cos^2 x & \sin^2 x \\ \sin^2 x & \cos^2 x \end{bmatrix} + \begin{bmatrix} \sin^2 x & \cos^2 x \\ \cos^2 x & \sin^2 x \end{bmatrix}$

3. Compute the indicated products.

(i)  $\begin{bmatrix} a & b \\ -b & a \end{bmatrix} \begin{bmatrix} a & -b \\ b & a \end{bmatrix}$

(ii)  $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} [2 \ 3 \ 4]$

(iii)  $\begin{bmatrix} 1 & -2 \\ 2 & 3 \end{bmatrix} \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{bmatrix}$

(iv)  $\begin{bmatrix} 2 & 3 & 4 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix} \begin{bmatrix} 1 & -3 & 5 \\ 0 & 2 & 4 \\ 3 & 0 & 5 \end{bmatrix}$

(v)  $\begin{bmatrix} 2 & 1 \\ 3 & 2 \\ -1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 1 \\ -1 & 2 & 1 \end{bmatrix}$

(vi)  $\begin{bmatrix} 3 & -1 & 3 \\ -1 & 0 & 2 \end{bmatrix} \begin{bmatrix} 2 & -3 \\ 1 & 0 \\ 3 & 1 \end{bmatrix}$

# Matrices Problems With Answers

**Mary Jane Sterling**



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web synopsis in order to escape the orphanage where they are being raised as food for demons emma norman and ray begin recruiting allies but convincing the other children to believe them may not be an easy task

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shares the deuteragonist role with ray he stands out 3

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web apr 7 2023 the extended plot of the promised neverland season 3 is she lived in grace field house with 37 other orphans a self contained orphanage in 2045 1 000 years after the formation of the promise isabella their mom loves them dearly and provides them with plentiful food plush beds clean clothes and games

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web the promised neverland fifteen escaped from grace field house finally getting a chance at freedom instead the outside world is almost too cruel to face but the search for better lives and a promise to save their family still trapped imbue the

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web jul 24 2022 anime by mohit kamboj on jul 24 2022 as one of the most eagerly awaited series of its debut season the promised neverland got off to a promising start japan s first season was renewed for a second in march of the same year after a successful debut in january 2019 netflix has the second season available until march 26 2021

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web jul 25 2022 answered there are not currently any plans to release another season of the promised neverland either as a redo of the second season or an expansion covering skipped arcs from the series what

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web this is a tragic poor and shameless attempt to conclude an anime with such great potential the promised neverland surely deserved better however it looks like there is no redeeming the anime now as season 3 of the promised neverland appears unlikely to happen we are more likely to see a spinoff and a reboot rather than a third season

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web 181045 is the third episode of the promised neverland anime it aired on january 25 2019 sister krone has very comfortably settled herself into life at the orphanage much to our three heroes chagrin

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