

add corresponding entries

for example: $-1+9=8$, and then repeat for the remaining entries.

$$[C] = \begin{bmatrix} -1 & 4 & 10 \\ 7 & 8 & -8 \\ 5 & -4 & 9 \\ -2 & 0 & -3 \end{bmatrix} \quad [F] = \begin{bmatrix} 9 & -3 & -6 \\ 1 & 2 & -9 \\ 6 & 3 & 7 \\ -2 & -8 & -10 \end{bmatrix}$$

$$C+F = \begin{bmatrix} -1+9 & 4-3 & 10-6 \\ 7+1 & 8+2 & -8-9 \\ 5+6 & -4+3 & 9+7 \\ -2-2 & 0-8 & -3-10 \end{bmatrix}$$

$$= \begin{bmatrix} 8 & 1 & 4 \\ 8 & 10 & -17 \\ 11 & -1 & 16 \\ -4 & -8 & -13 \end{bmatrix} \quad \text{answer}$$

$$[C] + [F] = \begin{bmatrix} \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \end{bmatrix}$$

$$\begin{bmatrix} 8 & 1 & 4 \\ 8 & 10 & -17 \\ 11 & -1 & 16 \\ -4 & -8 & -13 \end{bmatrix}$$

subtract corresponding entries

$$\text{Let } A = \begin{bmatrix} 6 & 2 \\ 7 & -1 \\ 5 & -3 \end{bmatrix} \text{ and } B = \begin{bmatrix} -7 & -5 \\ -1 & -4 \\ -7 & 1 \end{bmatrix}.$$

Then $A - B =$

$$\begin{bmatrix} \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \end{bmatrix}$$

$$\begin{bmatrix} 13 & 7 \\ 8 & 3 \\ 12 & -4 \end{bmatrix}$$

$$A - B = \begin{bmatrix} 6 - (-7) & 2 - (-5) \\ 7 - (-1) & -1 - (-4) \\ 5 - (-7) & -3 - 1 \end{bmatrix} \quad \begin{array}{l} \text{subtract} \\ \text{corresponding} \\ \text{entries.} \\ \text{example :} \end{array}$$

$$= \begin{bmatrix} 6+7 & 2+5 \\ 7+1 & -1+4 \\ 5+7 & -4 \end{bmatrix} \quad A = \begin{bmatrix} 6 & 2 \\ 7 & -1 \\ 5 & -3 \end{bmatrix}$$

$$B = \begin{bmatrix} -7 & -5 \\ -1 & -4 \\ -7 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} 13 & 7 \\ 8 & 3 \\ 12 & -4 \end{bmatrix}$$

$$A_{11} - B_{11} = 6 - (-7) = 13$$

What is the 3, 2-entry of the matrix?

5	-24	-22	-30
-42	19	49	-41
29	17	-14	-11

column 2

row 3

entry at $a_{32} = 17$

a_{32} means entry at row 3, column 2

$a_{row=3, column=2} = 17$

$a_{row\ index, column\ index}$

a_{11}	a_{12}	a_{13}	a_{14}
a_{21}	a_{22}	a_{23}	a_{24}
a_{31}	a_{32}	a_{33}	a_{34}

row 1

row 2

row 3

a_{11}	a_{12}	a_{13}	a_{14}
a_{21}	a_{22}	a_{23}	a_{24}
a_{31}	a_{32}	a_{33}	a_{34}

column 1

column 2

column 3

column 4