



Math worksheet on 'Matrices - Subtract (Level 1)'.
Part of a broader unit on 'Matrices'

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1 Find the resulting matrix for $Z - X$

$$Z = \begin{bmatrix} 2 & 2 \\ 6 & 6 \\ 1 & 5 \\ 8 & 0 \end{bmatrix}$$

$$X = \begin{bmatrix} 7 & 1 \\ 3 & 3 \end{bmatrix}$$

a	$\begin{bmatrix} 7 & 1 \\ 3 & 3 \end{bmatrix}$	b	$\begin{bmatrix} 1 & -3 \\ -2 & 6 \end{bmatrix}$
c	undefined	d	$\begin{bmatrix} 1 & -2 \\ -2 & 6 \end{bmatrix}$

2 Find the resulting matrix for $Y - D$

$$Y = \begin{bmatrix} 8 & 9 \\ 8 & 9 \end{bmatrix}$$

$$D = \begin{bmatrix} 8 & 9 \end{bmatrix}$$

a	$\begin{bmatrix} 0 & 0 \end{bmatrix}$	b	$\begin{bmatrix} 8 & 9 & -8 & -9 \end{bmatrix}$
c	$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$	d	$\begin{bmatrix} 0 & -2 \end{bmatrix}$
e	$\begin{bmatrix} 7 & 3 \end{bmatrix}$		

3 Find the resulting matrix for $B - D$

$$B = \begin{bmatrix} 1 \end{bmatrix}$$

$$D = \begin{bmatrix} 4 \end{bmatrix}$$

a	$\begin{bmatrix} 1 & -4 \end{bmatrix}$	b	$\begin{bmatrix} -3 \end{bmatrix}$
c	$\begin{bmatrix} 1 \end{bmatrix}$	d	$\begin{bmatrix} 8 \end{bmatrix}$
e	$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$		

4 Find the resulting matrix for $Y - D$

$$Y = \begin{bmatrix} 3 & 5 & 8 \\ 8 & 5 & 9 \\ 0 & 9 & 5 \\ 2 & 1 & 8 \end{bmatrix}$$

$$D = \begin{bmatrix} 3 & 9 & 3 \\ 8 & 5 & 1 \end{bmatrix}$$

a	$\begin{bmatrix} 3 & 4 & 6 \\ 6 & 9 & 3 \\ 6 & 8 & 5 \end{bmatrix}$	b	$\begin{bmatrix} 1 & 4 & 0 \\ 5 & -4 & 6 \\ -8 & 4 & 4 \end{bmatrix}$
c	$\begin{bmatrix} 6 & 7 & 9 \\ 8 & 0 & 5 \\ 6 & 8 & 5 \end{bmatrix}$	d	$\begin{bmatrix} 1 & 4 & 0 \\ 5 & -3 & 6 \\ -8 & 4 & 4 \end{bmatrix}$
e	$\begin{bmatrix} 1 & 4 & 0 \\ 5 & -4 & 7 \\ -8 & 4 & 4 \end{bmatrix}$		

5 Find the resulting matrix for $P - C$

$$P = \begin{bmatrix} 0 & 7 & 9 \\ 2 & 4 & 6 \end{bmatrix}$$

$$C = \begin{bmatrix} 2 & 4 & 6 \end{bmatrix}$$

a	$\begin{bmatrix} 7 & 3 & 7 \end{bmatrix}$	b	$\begin{bmatrix} 4 & 7 & 0 \end{bmatrix}$
c	undefined	d	$\begin{bmatrix} 9 & 8 & 8 \end{bmatrix}$
e	$\begin{bmatrix} -2 & 3 & 3 \end{bmatrix}$		

6 Find the resulting matrix for $M - R$

$$M = \begin{bmatrix} 0 & 5 & 4 \\ 0 & 0 & 0 \\ 0 & 9 & 6 \end{bmatrix}$$

$$R = \begin{bmatrix} \end{bmatrix}$$

a	$\begin{bmatrix} 5 & 6 & 9 \\ 1 & 3 & 3 \\ 5 & 7 & 7 \end{bmatrix}$	b	undefined
c	$\begin{bmatrix} \end{bmatrix}$	d	$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$

7 Find the resulting matrix for $Z - X$

$$Z = \begin{bmatrix} 5 & 4 \\ 2 & 5 \end{bmatrix}$$

$$X = \begin{bmatrix} 5 & 4 \\ 2 & 5 \end{bmatrix}$$

a	$\begin{bmatrix} 4 & 2 \end{bmatrix}$	b	$\begin{bmatrix} 5 & 4 \\ -2 & -5 \end{bmatrix}$
c	$\begin{bmatrix} 6 & 9 \end{bmatrix}$	d	$\begin{bmatrix} 3 & -1 \end{bmatrix}$
e	$\begin{bmatrix} 2 & 9 \end{bmatrix}$		