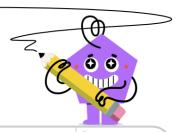




Matrices - Subtract with Two Scalars



1	Find the resulting matrix for zY - cD
•	when $z = 2$ and $c = 4$

$$Y = \left[egin{array}{ccc} 5 & 3 \ 3 & 2 \ 0 & 1 \end{array}
ight] \;\; D = \left[egin{array}{ccc} 7 & 3 \ 5 & 1 \ 2 & 5 \end{array}
ight]$$

	_	_		
Α	$\left[\begin{array}{cc} -18 & -8 \\ -14 & 0 \\ -8 & -21 \end{array}\right]$	В	$\left[\begin{array}{cc} -18 & -6 \\ -14 & 0 \\ -8 & -18 \end{array}\right]$	
С	$\left[\begin{array}{cc}0&8\\3&1\\0&0\end{array}\right]$	D	$\left[\begin{array}{cc}5&1\\9&9\\0&3\end{array}\right]$	
Е	$\begin{bmatrix} 10 & 6 & -28 & -12 \\ 6 & 4 & -20 & -4 \end{bmatrix}$			

2	Find the resulting matrix for dP - yZ when d = 4
	and y = 3

$$Y = \begin{bmatrix} 5 & 3 \\ 3 & 2 \\ 0 & 1 \end{bmatrix} D = \begin{bmatrix} 7 & 3 \\ 5 & 1 \\ 2 & 5 \end{bmatrix}$$

$$P = \begin{bmatrix} 0 & 7 & 2 \\ 2 & 7 & 2 \\ 5 & 3 & 1 \\ 2 & 6 & 7 \\ 8 & 6 & 0 \\ 4 & 7 & 2 \end{bmatrix} \begin{bmatrix} 7 & 9 & 0 \\ 4 & 5 & 6 \end{bmatrix} \begin{bmatrix} 4 & 3 \\ 3 & 0 \\ 4 & 5 & 6 \end{bmatrix}$$

$$\begin{bmatrix} -6 & 10 & -13 \\ -16 & 9 & 8 \\ 8 & -9 & -2 \end{bmatrix} \begin{bmatrix} -6 & 10 \\ -16 & 10 \\ 8 & -9 \end{bmatrix}$$

$$\begin{bmatrix} \frac{0}{10} & \frac{6}{10} & -28 & -12 \\ \frac{6}{6} & 4 & -20 & -4 \\ \frac{6}{6} & 4 & -20 & -4 \\ 2 & 6 & 3 \end{bmatrix}$$

$$Z = \begin{bmatrix} 10 & 6 & -28 & -12 \\ \frac{6}{6} & 4 & -20 & -4 \\ 2 & 6 & 3 \end{bmatrix}$$

† 6 7 4	4 9 5	8 0 6		B 6 4 3	0 3 0	2	
<u>C</u> _6	10	-13]	[D -6	10	-13	1

$$\begin{bmatrix} 5 & 4 & 5 \\ 3 & 1 & 4 \\ 2 & 6 & 3 \end{bmatrix}$$

$$C = \left[egin{array}{cccc} 2 & 8 & 1 \ D = \left[egin{array}{cccc} 4 & 8 & 1 \end{array}
ight]$$

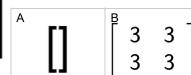
$$\begin{bmatrix} A & -8 & -3 \end{bmatrix} & B & -5 & -8 & -1 \end{bmatrix}$$

$$\begin{bmatrix} C & 9 & 7 & 2 \end{bmatrix} & D & 7 & 9 & 2 \end{bmatrix}$$

$$D = [$$

Find the resulting matrix for cD - rX when c = 3 and r = 3

$$X = []$$



5 Find the resulting matrix for pC - dB when p = 2 and d = 2

$$C = \left[egin{array}{c} 7 \ 9 \end{array}
ight] \ \ B = \left[egin{array}{c} 3 \ 8 \end{array}
ight]$$

$$\begin{bmatrix} 2 \\ 9 \end{bmatrix} \begin{bmatrix} 14 \\ 18 \\ -6 \\ -16 \end{bmatrix} \begin{bmatrix} 6 \\ 8 \\ 2 \end{bmatrix} \begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix} \begin{bmatrix} 7 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} A & & & & \\ -8 & -8 & -13 \\ 1 & 6 & -8 \end{bmatrix} \begin{bmatrix} B & & \\ -8 & -8 & -12 \\ 1 & 6 & -8 \end{bmatrix}$$

$$\begin{bmatrix} c \\ -8 & -8 & -16 \\ 1 & 6 & -8 \end{bmatrix} \begin{bmatrix} 2 & 2 \\ 3 & 3 \end{bmatrix}$$

$$R = \left[egin{array}{c} 4 \ 4 \ 7 \end{array}
ight] \quad X = \left[egin{array}{c} 8 \ 4 \ 9 \end{array}
ight]$$

$$\begin{bmatrix} A & & & & & \\ & 4 & & & \\ & 8 & & & \end{bmatrix} \begin{bmatrix} B & 8 & -3 & \\ 8 & -1 & \\ 14 & -3 & \end{bmatrix}$$

$$\begin{bmatrix} c & 5 \\ 5 \\ 5 \end{bmatrix}$$

$$\begin{bmatrix} -24 \\ -8 \\ -22 \end{bmatrix}$$

8

$$P = \left[egin{array}{cccc} 0 & 4 & 9 \ 5 & 6 & 1 \ 4 & 3 & 7 \ 7 & 3 & 7 \ 9 & 2 & 4 \ 0 & 2 & 5 \ \end{array}
ight]$$

Find the resulting matrix for zP bD when z = 3 and b = 2

Λ	[2 2]	R [9 0 9]
	$\left[\begin{array}{cc}3&3\\2&2\end{array}\right]$	B $\begin{bmatrix} 9 & 0 & 9 \\ 5 & 8 & 7 \\ 3 & 6 & 8 \end{bmatrix}$
С	0 12 27 15 18 3 12 9 21 -14 -6 -14 -18 -4 -8 0 -4 -10	$ \begin{array}{c cccc} D & -14 & 6 & 13 \\ -3 & 14 & -5 \\ 12 & 5 & 11 \end{array} $
Е	$ \left[\begin{array}{ccc} 3 & 3 & 0 \\ 9 & 0 & 0 \\ 2 & 8 & 8 \end{array}\right] $	