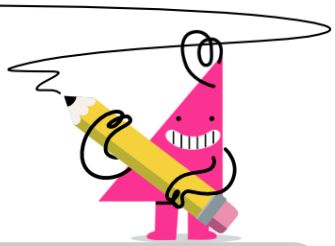
Name

Matrices - Add with Two Scalars



1 Find the resulting matrix for yD + nZ when y = 2 and n = 4

$$D = \begin{bmatrix} 0 & 2 \\ 5 & 6 \end{bmatrix} \quad Z = \begin{bmatrix} 2 & 7 \\ 0 & 1 \end{bmatrix}$$

A $\begin{bmatrix} 9 & 7 \\ 8 & 6 \end{bmatrix}$

B $undefined$

C $\begin{bmatrix} 2 & 1 \\ 0 & 7 \end{bmatrix}$

D $\begin{bmatrix} 8 & 32 \\ 10 & 16 \end{bmatrix}$

E $\begin{bmatrix} 0 & 4 \\ 10 & 12 \\ 8 & 28 \\ 0 & 4 \end{bmatrix}$

2 Find the resulting matrix for bZ + yX when b = 3 and y = 2

$$Z = \begin{bmatrix} 8 & 0 & 4 \\ 7 & 4 & 0 \end{bmatrix} \quad X = \begin{bmatrix} 0 & 7 & 5 \\ 6 & 3 & 5 \end{bmatrix}$$

A $\begin{bmatrix} 9 & 0 & 8 \\ 6 & 8 & 1 \end{bmatrix}$

B $\begin{bmatrix} 27 & 14 & 23 \\ 33 & 16 & 10 \end{bmatrix}$

C $\begin{bmatrix} 24 & 14 & 22 \\ 33 & 18 & 10 \end{bmatrix}$

D $\begin{bmatrix} 8 & 8 & 7 \\ 9 & 7 & 3 \end{bmatrix}$

E $\begin{bmatrix} 24 & 0 & 12 \\ 21 & 12 & 0 \\ 0 & 14 & 10 \\ 12 & 6 & 10 \end{bmatrix}$

3 Find the resulting matrix for cR + dY when c = 2 and d = 2

$$R = []$$

$$Y = []$$

A $[]$

B $undefined$

C $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}$

4 Find the resulting matrix for xD + nP when x = 4 and n = 3

$$D = \begin{bmatrix} 6 \\ 3 \end{bmatrix} \quad P = \begin{bmatrix} 9 \\ 2 \end{bmatrix}$$

A $\begin{bmatrix} 24 \\ 12 \\ 27 \\ 6 \end{bmatrix}$

B $\begin{bmatrix} 51 \\ 15 \end{bmatrix}$

C $\begin{bmatrix} 3 \\ 7 \end{bmatrix}$

D $\begin{bmatrix} 51 \\ 18 \end{bmatrix}$

E $\begin{bmatrix} 6 \\ 3 \end{bmatrix}$

5 Find the resulting matrix for bR + zY when b = 3 and z = 3

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

A $\begin{bmatrix} 8 & 6 & 6 \end{bmatrix}$

B $\begin{bmatrix} 1 & 6 & 9 \end{bmatrix}$

C $\begin{bmatrix} 30 & 15 & 15 \end{bmatrix}$

D $\begin{bmatrix} 3 & 3 \\ 3 & 3 \end{bmatrix}$

E $undefined$

6 Find the resulting matrix for zB + xY when z = 2 and x = 3

$$B = \begin{bmatrix} 3 \\ 5 \\ 5 \end{bmatrix} \quad Y = \begin{bmatrix} 7 \\ 8 \\ 3 \end{bmatrix}$$

A $\begin{bmatrix} 27 \\ 34 \\ 19 \end{bmatrix}$

B $\begin{bmatrix} 8 \\ 5 \\ 2 \end{bmatrix}$

C $\begin{bmatrix} 2 & 2 \\ 3 & 3 \end{bmatrix}$

D $\begin{bmatrix} 27 \\ 34 \\ 18 \end{bmatrix}$

E $\begin{bmatrix} 26 \\ 34 \\ 19 \end{bmatrix}$

7 Find the resulting matrix for pZ + nM when p = 2 and n = 3

$$Z = \begin{bmatrix} 9 & 9 \\ 5 & 5 \\ 4 & 1 \end{bmatrix} \quad M = \begin{bmatrix} 4 & 8 \\ 9 & 6 \\ 3 & 4 \end{bmatrix}$$

A $\begin{bmatrix} 30 & 42 \\ 37 & 28 \\ 17 & 14 \end{bmatrix}$

B $\begin{bmatrix} 4 & 2 \\ 3 & 8 \\ 8 & 2 \end{bmatrix}$

C $\begin{bmatrix} 30 & 42 \\ 37 & 28 \\ 20 & 14 \end{bmatrix}$

D $\begin{bmatrix} 7 & 5 \\ 1 & 2 \\ 4 & 5 \end{bmatrix}$

E $\begin{bmatrix} 2 & 2 \\ 3 & 3 \end{bmatrix}$

8 Find the resulting matrix for nX + cY when n = 3 and c = 4

$$X = \begin{bmatrix} 3 \\ 9 \end{bmatrix} \quad Y = \begin{bmatrix} 9 \\ 8 \end{bmatrix}$$

A $\begin{bmatrix} 45 \\ 62 \end{bmatrix}$

B $\begin{bmatrix} 47 \\ 59 \end{bmatrix}$

C $\begin{bmatrix} 3 & 3 \\ 4 & 4 \end{bmatrix}$

D $\begin{bmatrix} 45 \\ 59 \end{bmatrix}$

E $\begin{bmatrix} 9 \\ 27 \\ 36 \\ 32 \end{bmatrix}$