If
$$\begin{pmatrix} x^2 + x & x \\ 3 & 2 \end{pmatrix} + \begin{pmatrix} 0 & -1 \\ -x + 1 & x \end{pmatrix} = \begin{pmatrix} 0 & -2 \\ 5 & 1 \end{pmatrix}$$
 then, x is equal to:



Solution:

$$\begin{pmatrix} x^2 + x & x \\ 3 & 2 \end{pmatrix} + \begin{pmatrix} 0 & -1 \\ -x + 1 & x \end{pmatrix} = \begin{pmatrix} 0 & -2 \\ 5 & 1 \end{pmatrix}$$

$$\begin{pmatrix} x^2 + x & x - 1 \\ -x + 4 & 2 + x \end{pmatrix} = \begin{pmatrix} 0 & -2 \\ 5 & 1 \end{pmatrix}$$

$$x^2 + x = 0 \qquad \Rightarrow x = 0, -1$$

$$x - 1 = -2$$
 $\Rightarrow x = -1$

$$-x + 4 = 5$$
 $\Rightarrow x = -1$

$$2 + x = 1$$
 $\Rightarrow x = -1$

$$\therefore x = -1$$

+

-1

В

0



1



-2