11:04 PM Sun Sep 22 75%

Matrices | Find the inverse of a 2x2 matrix | Brian L

Find the inverse of the matrix, $\mathrm{B} = \begin{bmatrix} -3 & 6 \\ 2 & -5 \end{bmatrix}$.

Non-integers should be given either as decimals or as simplified fractions.

$\mathbf{B}^{-1} =$

$\begin{bmatrix} -\frac{5}{3} & -2 \\ -\frac{2}{3} & -1 \end{bmatrix}$

$||B|| = (-3 \cdot -5) - (6 \cdot 2)$

$||B|| = 3$

$\begin{bmatrix} \frac{-5}{3} & \frac{-6}{3} \\ \frac{-2}{3} & \frac{-3}{3} \end{bmatrix} = \begin{bmatrix} -5/3 & -2 \\ -2/3 & -1 \end{bmatrix}$

Good work!
Keep going! Or see a step-by-step solution.

Next question