QUESTION Express $(\mathbf{AB})^{-1}$ in terms of the matrices \mathbf{A}^{-1} and \mathbf{B}^{-1} .

$$\begin{aligned} & \text{ANSWER} \\ & (\mathbf{A}\mathbf{B})^{-1} = \mathbf{B}^{-1}\mathbf{A}^{-1} \end{aligned}$$