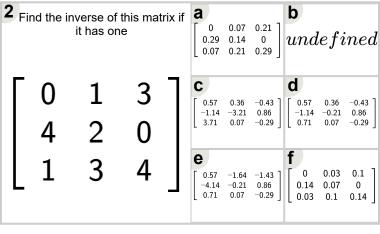


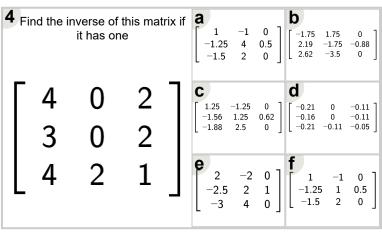
Math worksheet on 'Matrices - Find Inverse (3x3) (Level 1)'. Part of a broader unit on 'Matrices'

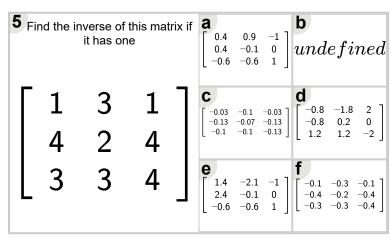
Learn online: app.mobius.academy/math/units/matrices/

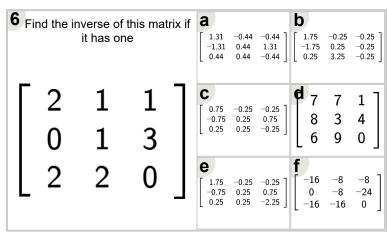
1	1 Find the inverse of this matrix if it has one			0.15 -0.2 0.25	0.25 0 -0.25	-0.22 0.3 0.12	b 0 0 0 0	0 0 0	0 0 0
	3 4	1	3 0	c 2 2 4	6 1 1	0 3 8	0.15 -0.2 0.25	0.25 0 1.75	-0.22 0.3 0.12
	_ 2	4	2	e	40 120 160	120 0 80	f $ \begin{bmatrix} -0.3 \\ 0.4 \\ -0.5 \end{bmatrix} $	-0.5 0 0.5	0.45 -0.6 -0.25



3	Find the inverse of this matrix if it has one			$\begin{bmatrix} 1.5 & 19.5 & -15 \\ 0 & -4.5 & 3 \\ -1.5 & -13.5 & 10.5 \end{bmatrix} \begin{bmatrix} \mathbf{b} \\ -1 & -13 & 10 \\ 0 & 3 & -2 \\ 1 & 9 & -7 \end{bmatrix}$	
	3 2	1 3	4 2	$undefined egin{bmatrix} extbf{d} & & & & & & & & & & & & & & & & & & &$]
	3	4	3]	$\begin{bmatrix} 0.75 & 0.25 & 1 \\ 0.5 & 0.75 & 0.5 \\ 0.75 & 1 & 0.75 \end{bmatrix} \begin{bmatrix} \mathbf{f} & 9 & 6 & 5 \\ 0 & 4 & 1 \\ 4 & 6 & 0 \end{bmatrix}$	







7	Find the in	iverse of it has on	this matrix i e	$\begin{bmatrix} {f a} & {f b} \ undefined {f \begin{bmatrix} 0.12 & 0 & 0.25 \ 0.25 & 0 & 0.38 \ 0 & 0.38 & 0.12 \ \end{bmatrix}} \end{bmatrix}$
	1 2	0	2 3	$\begin{bmatrix} -3 & 2 & 0 \\ -0.67 & 0.33 & 0.33 \\ 2 & -1 & 0 \end{bmatrix} \begin{bmatrix} -0.14 & 0 & -0.29 \\ -0.29 & 0 & -0.43 \\ 0 & -0.43 & -0.14 \end{bmatrix}$
	0	3	1	$\begin{bmatrix} -3 & 3 & 0 \\ -0.67 & 0.33 & 0.33 \\ 2 & -1 & 0 \end{bmatrix} \begin{bmatrix} \mathbf{f} & 3 & 0 & 6 \\ 6 & 0 & 9 \\ 0 & 9 & 3 \end{bmatrix}$