

Match-Up

Finding Determinants

1	Find $\det \begin{pmatrix} 5 & -2 \\ 3 & 1 \end{pmatrix}$	2	Find $\det \begin{pmatrix} 7 & 4 \\ 2 & -1 \end{pmatrix}$
3	Find $\det \begin{pmatrix} 3 & -1 & 4 \\ 1 & 2 & -1 \\ 5 & 0 & 4 \end{pmatrix}$	4	Find $\det \begin{pmatrix} 1 & 6 & -3 \\ 0 & 3 & 4 \\ 1 & -2 & -1 \end{pmatrix}$
5	Given $\det \begin{pmatrix} 6 & -5 \\ 7 & a \end{pmatrix} = 5$ Find a	6	Given $\det \begin{pmatrix} b & 5 \\ 2b & 9 \end{pmatrix} = 8$ Find b
7	Given that $\det \begin{pmatrix} 4 & c & -2 \\ 0 & 3 & 1 \\ -1 & 2 & -4 \end{pmatrix} = -34$ Find c	8	Given that $\det \begin{pmatrix} 5 & 2d & 1 \\ 2 & 1 & -1 \\ 0 & d & 3 \end{pmatrix} = -10$ Find d
9	$\mathbf{A} = \begin{pmatrix} 5 & -2 \\ -4 & f \end{pmatrix}$ Given that $\mathbf{A}$ is singular, find the value of f .	10	$\mathbf{B} = \begin{pmatrix} 4 & -g \\ 2 & 7 \end{pmatrix}$ Given that $\mathbf{B}$ is singular, find the value of g .
11	$\mathbf{C} = \begin{pmatrix} -4 & 3 & p \\ 1 & 0 & -1 \\ -1 & 2 & 5 \end{pmatrix}$ Given that $\mathbf{C}$ is singular, find the value of p .	12	$\mathbf{D} = \begin{pmatrix} 3q & q & -2 \\ -4 & 2 & 0 \\ 6 & 5 & -1 \end{pmatrix}$ Given that $\mathbf{D}$ is singular, find the value of q .

A	-28	D	-7	G	11	J	1.6
B	-15	E	4	H	10	K	-8
C	5	F	-5	I	38	L	-14

1	2	3	4	5	6	7	8	9	10	11	12
G	B	D	I	F	K	A	C	J	L	H	E