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
B	-15
C	5

D	-7
E	4
F	-5

G	11
H	10
I	38

J	1.6
K	-8
L	-14

1	2	3	4	5	6	7	8	9	10	11	12