



What is the fast way or method to identify or create the following matrices (less than 1 minute)? Please do not use the traditional way or method such as (i.e.  $A = [1 \ 2 \ 3 \ 4 \ 5; \dots]$ ):

	1	2	3	4	5	6	7	8	9	10	
A =	11	12	13	14	15	16	17	18	19	20 ;	(1)
	21	22	23	24	25	26	27	28	29	30	

$D = \begin{bmatrix} 0 & 0 & 0 & 66 \end{bmatrix}$ ,		$B = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$	) 0 ) 0 ) 0	0 0 0	0 0 66	;	(
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$C = \begin{vmatrix} 0 & 2 & 0 & 0 & 0 \\ 0 & 0 & 3 & 0 & 0 \\ 0 & 0 & 0 & 4 & 0 \end{vmatrix}; $ (3)	[1	0	0	0	0]	
$C = \begin{vmatrix} 0 & 0 & 3 & 0 & 0 \\ 0 & 0 & 0 & 4 & 0 \end{vmatrix}; $ (3)	0	2	0	0	0	
0 0 0 4 0	C = 0	0	3	0	0 ;	(3)
	0	0	0	4	0	
0 0 0 0 5	0	0	0	0	5	

$D = \begin{vmatrix} 0 & -1,5 & 0 & 0 & 0 \\ 0 & 0 & -3 & 0 & 0 \\ 0 & 0 & 0 & -4,5 & 0 \\ 0 & 0 & 0 & 0 & -6 \end{vmatrix}; $ (4)		0	0	0	0	0 ]	
$D = \begin{vmatrix} 0 & 0 & -3 & 0 & 0 \\ 0 & 0 & 0 & -4,5 & 0 \\ 0 & 0 & 0 & 0 & -6 \end{vmatrix}; $ (4)		0	-1,5	0	0	0	
$ \begin{vmatrix} 0 & 0 & 0 & -4,5 & 0 \\ 0 & 0 & 0 & 0 & -6 \end{vmatrix} $	D =	0	0	-3	0	0 ;	(4)
0 0 0 0 -6		0	0	0	-4,5	0	
		0	0	0	0	-6	



[	88	0	0	88	
E _	0	0	0	0	
L =	0	0	0	0	
	88	0	0	88	

	51	0	0	0	0	0
	0	41	0	0	0	0
F	0	0	31	0	0	0
F =	0	0	0	21	0	0
	0	0	0	0	11	0
<i>F</i> =	0	0	0	0	0	1

	2	3	4	5	6	7	
G =	1,1	1,2	1,3	1,4	1,5	1,6 ;	(7)
	8	6	4	2	0	-2	

	0	0 77	0 77	0	
H =	0	77	77	0;	
	0	0	0	0	

	0	66	66	0	
7	0	0	0	0	(0)
I =	0	0	0	0	(9
	0	66	66	0	

Γ	7	0	0	0	0	0
	0	1	0	0	0	0
<i>1</i>	0	0	10	0	0	0
J =	0	0	0	73	0	0
	0	0	0	0	44	0
	0	0	0	0	0	21