Determinan Matrice	No.
311	Date:
Tent.	
determinan	
14163	berikut Ini 1
8 5 A - E	
3 0	
Confection :	
1-2, 4 -53	
1 1 3 - 5	ч
	3
1 -8 -8	
	4
= 1/19	1)(4)) - ((-5)(3)(4)
= (48 + (-26)) _	(1)(4) - $((-5)(3)(1) + (4)(1)(-8)$
. \+	31)
= 45	
2. Tentukan determinan matriks	
	berikut ini!
-2 0	.5]
C = 1 3	0
L-1 4	8
Panyelesaian:	6.1
[-2, 0 :5,1 -2 0	
1 2 0	
5	
1-1-4-8 -1 4	
Det C = ((-2)(3)(-8) + (-5)(	(202) (120)
11377 4 (3)	(1)(4)) - ((-5)(3)(-1))
	)
- 13	
=	

1	No.
_	2. Tentukan determinan matait
1 _1	3. Tentukan determinan matriks benikut ini i.
	[-2 4 5 7
_C	A: 1 3 -7
	Penyelesaian:
	-z 4 -5]-z t4
	Det A = 0
4.	Tentukan determinan matriks berikut inil
-	Territory was
_=	[-2 4 -5]
	A = 1 3 -7
$\underline{}$	L-1 4 -8
	Paryelesaian:
	[-2, 4, 55, ]-2 4
	1 3 -7 1 3
	1 1 4×8×-1 4
	Del A (taxtas a state )
	Det A = (+2)(3)(-8) + (4)(-7)(-1) + (-5)(1)(4) - (+5)(3)(1)+
	(-2)(-7)(4) + (4)(1)(-8))
	= (48 + 28 - 20) - (15+56-32)
	= 17
5.	Tenhana delamina a molecua berra mil
	Tentukan determinan matriks berikut ini!
	[1 3 1 7
	8 = 4 2 2
	2 2 1
	Penyelesaian:
5	Production 1
$\Rightarrow +$	$\left(\frac{1}{3} \times \frac{3}{3} \times \frac{3}{3}\right)^3$
	4 2 2 4 2
	2/2/1/2/2

		4.
De	et B : [www.	No.
7	g(x) = ((1)(2)(1) + (3)(3)(2) + (3)(3)(2)	Date: (1)(2)(2) + (1)(2)(2) + (3)(4
	$\frac{(2+12+8)-(4)(4)(2)-(4)(4)(2)-(4)(4)(2)}{(2+12+8)-(4+12)(4)(4)(2)}$	(IVa)
7	= 22 - 20 - (4 + 4 + 12	(1)(2)(2) + (1)(2)
3	= 2 - 20 (7 + 4 + 12	) (3)(3) + (3)
1	-	-3(4
Del	dt mi	
7	comman matriks 4 × 4	
- T		
Te	untukan determinan matrika	
]	matriks besites	
	[3	
	A = 2 2	
-	1 3 2	
	3 3 Y 3	
Pen	12 1	
10	yelesaian:	
+	2 3 2 2 2 2	
	1 3 2 3 2 4	
	3 3 12 11 3	
1	3 3 VX2X2X1/5 3	
-	2 5 7×3×1×3	
4,	= (2 11 1 2 3	
	(-4.4.3) -(3.3.3.2) +(2.2.	N /
1	= (2.4.4.3) - (3.3.3.2) + (2.3.3.2) $= (3.2.3.2) - (2.4.3.3) + (2.3.3.2)$ $= -12$	5)-(2.2.3.2)-6
-	= -12	2)
	- ACM - 1 Co.	
	2 2 12 3 2 2 7 2	7 7 7
+	A2 = 3 3 2 4 2 2	13,2223
	Y 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	× 3 3 2 4
	7-13-3-13	3.4.2 3 2
	1 2 5 2 3 3	The same of the sa
1	Az = - (2.4.3.2) + (2.22.2)	5 2 3-2-5
	$A_2 = -(2.4.3.2) + (3.3.3.3) - (2.3.3.2) - (2.3.3.2)$	33.2) + (2.2.4.5) +
		(2 4 3 2) - (2 2 3 5)
-	= -1	(2,3,5,7)
-		
L .		

	No.
	Date:
7	2 (2 3 2 2) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
=	
	3 3 3 3 4 2 7 2 7 3 3 2
	3 2 2 3 2 2 2 2
7	Az = (2.3.3.5) - (3.3.3.2) + (2.2.3.3) - (2.4.4.2) -
	(2.3.3.3) + (3.3.4.2) - (2.2.3.5) + (2.4.3.
7	= 14
=	
=	Det A = A1 + A2 + A3
=	= (-12)+(-1)+14
=	= 1
=	
	La de la companya della companya della companya de la companya della companya del
2.	Tentukan determinan matriks tersebut
	[1 2 3 4 7
	2 ) f 8 = A
	9 -1 -2 -3
	L-4 -5 -5 -4 J
	Penyelesaian:
	[1 2 3 4]1 2 3 Y
	A1 = 8 7 6 5 8 7 6 5
	9 -1 -2 -3 9 -1 -2 -3
	-4 -2 -2 -4 1-4 -2 -2 -4
	A = (1.7.2, -4) - (2.634) + (3.5.g5) - (4.81-5)
	(1.525) +(2.835) - (3.7.94) +(4.614)
	A. = 119
	3 4 (1 2 3 41 2 3 4 1 2
	A2=65 8765876587
	-2-3 9-1-2-3 9-1-2-39-1
	-5 -4 [-4 -5 -5 -4]4 -5 -5 -4 -4 -5
-	

	Az = - (1.735) + (2.6.94) - (3.514) + (4.825) +
	(1.515)-(2.824)+(3.734)-(4.6.95)
	Az = 952
	4 5 1 2 3 4 7 1 2 3 4 1
	A3 = 5 8 7 6 5 8 7 6 5 8
	-3 9 -1 -2 -3 9 -1 -2 -3 9
	-4 [-4 -2 -2 -4]-4 -2 -2 -4 -4
	$A_3 = (1.635) - (2.5.95) + (3.814) - (4.724) - (1.614) + (2.52.4) - (3.835) + (4.724)$
	(1.614)+ (2.52.4) - (3.835)+(4.2.5.5)
	A3= -1152
	Det A = A, + A2 + A3
	= 119 +952 -1152
	= -61
3.	Tenfukan determinan matriks berikut.
	C2 -1 3 0 7
	B = -3 1 0 4
	-2 1 4 1
	[-1 3 0 -2]
	Penyelesaian:
	det B = 3 1-3 1 41 + 0 12 -1 0 1 + 4 /2 -1 01
	-2 1 1 -2 1 1 -3 1 4
	-1 3 -2   -1 3 -2   -1 3 -2
	+012 -1 01
	-3 , 4
	-2
	det B = 3. (-3(-5)+1(-5)+4(-5)+0+4.(2(-14)-1(-10))+0
一十	det B = 3 (15-5-20) + 4 (-28+16)
	det B = -102.

- Boal

determinan 4. Tentukan Matrite berieut. A : 3 0 Penyeleraian : Det A : 40 2 0 + 2 1 0 2 15 0 Y 0 3 5 2 - 411 41 2 2 = 0 (0+10+10) - (16+3+0) - 1 (0+10+16) - 16+1+0) +2 (4+ 0+12)- (12+0+40)-4(2+0+0)-(6+0+32) = 63 5. Tentukan determinan matrike berikut A = 3 2 Penyelesaian: 国领型

	and the same of th	mus 3x3	
1) A	· / ·.	No Date:	4
		1 12 1 2 3 1 2 3 2 3	//
		A. = 2 1 4 1 2 1 4 1	
		4 5 2 3 4 5 2 5	
2)		1 3 4 2 1 3 4 2	
		A, = 8-36+24-120-12+72-16+60	
		= -20	_
D		. 3 [ 2 2 2 3 ] 2 3 2 3 2 3	_
			_
		A2 = 4 1 2 1 1 1 2	-
_		2 3 4 5 2 3 4 5 2 7 7 5	-
) A	-=	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
******	-	Az = -24 + 96 - 10 + 36 + 40 - 24 +6-149	
	-		
D <sub>1</sub>		3 7 2 3 2 3 7 2 3 2 3 2	
		A3 = 1 2 1 4 1 2 1 4 1 2	
_		3 4 5 2 3 4 5 2 3 4	
		2 [ 1 3 4 2 ] 1 3 4 2 1	
) A		Az = 72-48+40-6-80+6-36+48	
7		= -Y	
П.			
Del		Determinan matriks sxs	_
	1.	Toohiron Islamana Islam Islam	_
		Tentukan determinan matriks berikut.	_
~1	_	0 6 -2 -1 57	-
	$\overline{}$		_
2	$\overline{\Box}$		
4		0 -1 -11 -2 1  -2 -2 3 0 -2	
			-

A

No.

Pen	elesalan:	-	6 -2	-1	5	1	1	6	-1	1	5
	det M :	det	0 0			2-5	. det	0		9	-7
=-	WEL LAI		15 3					3	7	0	0
=-			-1 -1		-			-1	-11	2	١
Yann	ia itu P		· det (								
and the second	R = 10				51		16	-2	11		
=	1	-g det			-	7 det	3	7	0		
=		1		-11			-1	-4	2	1	
5			- 11				371				
7 R	- 10		L M	53	0 ]	4		6	-	17)	1
		-9 d	et 3	7	0	-7 d		3		0	1
5			-1	-11	1)			13	-7	0	
										1.0	
] [											_
1 8	= 10 (-a.	( (( ) )	- 53.3	- 7	. (-7	1.3 +	7.13)	)			
	= 10 (-g.	(4.7.	- 53.3	- 7	. (-3	.3 4	7.3)	)			
) 12	= 2480	a i					7.3)	<u>,                                    </u>			
) 12	= 2480	a i					7.3)	<u></u>			
) 12		a i					7.0)	7			
) 12	= 2480 n determin	navi v	matriks		kut	iki.	7.03)	7			
) 12	= 2480	navi v	matriks	Veri!	Keut 2	iki.	7.3)	7			
) 12	= 2480 n determin	navi v	mateiks -3 1	Veri	2 -3	ini. 5 7 2	7.3)	7			
) 12	= 2480 n determin	navi v	matriks -3 1	beri	2 -3 2	ini. 5 7 2 -3	7.3)	7			
Tentukar	= 2480 n determin A =	rave v	matriks -3 1	Veri	2 -3 2	ini. 5 2 -3	7.3)	7			
) 12	= 2480 n determin A =	rave v	-3 -4 -1	Veri	2 -3 2 2	ini.  5 2 -3 1 2	7.3)	7			
Tentukar	= 2480 n determin A =	7 y 5 3 - 4	matriks -3 1	Veri	2 -3 2 2 -1	ini. 5 2 -3	7.3)	7			
Tentukar	= 2480 n determin A =	7 Y S Z Y	-3 -4 -1	Veri	2 -3 2 2	ini.	7.3)	7			
Tentukar	= 2480 n determin A =	7 y 5 3 - 4 5	-3 -4 -1 -1 -4	Veri	2 -3 2 -1 2 -3 2	ini.  5 2 -3 1 2 5 1	7.3)	7			
Tentukar	= 2480 n determin A =	7 Y S Z Y	-3 -1 -1	Veri	2 -3 2 -1	ini.  5 2 -3 1 2 5 2 -3	7.3)	7			

Peterminan t	Normus 3x5
1) A . / 2	-1 11
	No.
-	Date:
4	
	7 (14 5 1 19)
	8 = -21 -6 2 5
	3 -18 -6 0
=	7 -1 -10 -15 5)
	Meneruskan kondensasi untuk menghasilkan 3×3
n	[21 16 -33] [1 - 2 -3]
D	420 72 46 : int A -4 2 2
	-88 zio 90 [-1 5 2]
	(21 -8 11)
A -	C = -105 36 23
· -	88 42 45
<u>-</u>	1 100 12 11
D -	Meneruskan kondinsagi untuk menghafilkan 2×2
· - =	1 Contractor tourstail attine tour amount to a
	8:[-84 -5807 : int 8 [-6 2]
7	8 = [-84 -580] : int 8 [-6 2] [-7578 654] [-18 -6]
	(-7210 637)
A	) D > (lw
	D = [14 - 290]
	[42] -109
Dei	Dat D. (14 x ( ) (
	Det D: (14 x (-109)) - (421 x (-290))
	= 120.564
	Bagi hasil determinan O diatas deugan interior matrits C, yaih
	I.d. det A = 100 000
	Jadi det A = 120.564 : 36
	= 3.349

Pentor		

3.	Tentuk	Ç.C	term:				rikut					
				1-1	- 1	4	2	- (	1			
5			A =	-2	1	-2	- 1	2	1	-		
				2	-1	-4	5	-3	1			
				-4	2	6	2	2	1			
				- 6	3	9	-3	- 1	)			
	Det A	= [	. 1	13	1_	3		7			_	
			0	-99	-8	2	2	_				
			0	0	-1	4	-3	_				
			0	0	0	4	2					
		L	0	Ò	0	0	1 -					
		= (1	) (- 9	9) (-	1) (	0(1)						
		- 30				((02)(-2/)-						
			/ -									
		- ,										
Te	en tuko n	deterr		VMa	triks	beriku	+ ini.					
Te	en fuko n			VMa 2	itaks 3	beriku Y	+ ini. S	1				
Te	en tuko n		ninan		121	beriku Y S	83	}				
Te	en tuko n	deterr	ninan	2 4	3	Ч	83	}				
Te	en tuko n	deterr	rinan	2 4 3	3	4	5	1				
Te	en tuko n	deterr	1 3 6	2 4	3	y 5	5 1 4 3	1				
Te	en tuko n	deterr	1 = 3 6 -1	2 4 3 5	3 8 5	y 5 2	5 1 4	]				
Te		deterr A	1 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
Te		deterr A	1 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
Te		A =	- 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
Te		A =	1 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
Te		A =	- 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
Te		A =	- 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
Te		A =	- 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				
		A =	- 3 6 -1 2	2 4 3 5 2	3 8 5 2 3	y 5 2 -1 3	5 1 4 3	}				

5\_

- E@G

Khairunnissa Marries 3x3 No. Onto: berikut . determinan matrius Tentutan 5. 2 0 2 2 4 3 0 D= 4 6 3 0 2 2 3 -3 10 Det D = 0-0+0-1(0)-0 0 - Boal