		Date:
	Ji Kompetensi BAB 4	
A.		
	gar A(x1417) dan B (614,14) Segaris, nilai x-	y haruslah
= a	1 = k - b	
	$\begin{pmatrix} \dot{x} \\ \dot{y} \end{pmatrix} = k \begin{pmatrix} \dot{y} \\ \dot{y} \end{pmatrix}$	
	1 × 1 6k 1	4
	$\begin{pmatrix} x \\ 4 \\ 7 \end{pmatrix} = \begin{pmatrix} 6k \\ yk \\ 19k \end{pmatrix}$	
	· · · · · · · · · · · · · · · · · · ·	
<u> </u>	di: x = 6h Cari k : 7=14k Cari x	: X = 64
	$4 \cdot 9k$ $k = \frac{7}{14}$ $k \cdot \frac{1}{2}$	x:6(%)
	7 = 14h k = 1	×: 3
	ari y: 4:44 Jodi x-y:3-8:-5	a.
	1=9(1/3)	A PART AND
	y = 2(4)	
	y = 8	
2.	Dik: A(4,1,3) dit: P+9?	A.C.A.
	B(P,4,6)	
	((20,13,4)	
	AB dan BC: Segaris	
	AB = CD dari Vehtori:	
	B - A = D - C $P - 4 = 20 - P$	
	9-4,4-1,6-3 = 20-p, 13-4, 9-6 P+P=20+4	1-3
	2-41313 = 20-P1919-6 2p= 24	
	P> 12	
	naha ptq= 12+g= 21 b.	
	· · · · · · · · · · · · · · · · · · ·	
		al I DOGG

	Date:	
3.	Dik: A: (1,2,3) Dit: AB: BL?	•
	B: (3,3,1)	
	c · (7,5,-3)	
	A, Bic = Segaris	
	= AB = b-a BC = C-b	
	= (3,3,1) -(1,2,3) = (7,5,-3) - (3,3,1)	
	= (2,1,-2) = (4,2,-4)	
	AB: BC	
	(2,11-2): (4,2,-4)	
	$(2_11_1-2):$ (2_11_1-2)	
	1:20.	
		3
4.	Dik: K(3,4,2) Dit: heardinat titik P?	
	L(2,2,4)	
	P membagi garis kl dgn ferbondingan 3:1	
	ln 21 - 2 · 1	
	P = (31+k)	
	4	
	= (3(2,2,4) + (3,4,2))	
	4	•
	=((6,6,12)+(3,4,2))	
	4	
	$=(9.10.14)$ $=(\frac{9}{4},\frac{10}{4},\frac{14}{4})$ $=>(\frac{9}{4},\frac{5}{2},\frac{7}{2})$ a.	
	4 4 4	

	1 12 2 - 37 0	

		Date:	
5. Dik: Pa . (2,0,1) Di	: F3		
Pil = (1,1,2)			-
P3 : 1 PQ			-
13 2 7 4			
01 01 01			
: RS . Rp + PS			
* -PR +PS			
= -PF+1/2 PQ			
1-(111,2)+1/2 (2,0,1)			
= (-1,-1,-2) + (1,0,1/2)			
=(-1+1,-1+0,-2+1/2)		,	
PS=(0,-1,-3/2) A.			
		1 1	
		N. The second second	
18: IVI IV	ingan ponjuny v te 1xl = 4lvl	iung Proyeks; Udan V rtalap Paryang Vado	1 Sama dgn E loh
hoti ponjong V i moko perband = u u	ingan ponjuny v te x = 4 v (cs 0 = 4 v v = 4	lung Proyeks; Udan V rtadap Panyang Vada	1 Sama dgn E loh
kali panjang V 1 maka perband lul lul	ingan ponjuny v te 1xl = 4 lvl 1 Cos 0 = 4 lvl 1vl = 4 lvl (w 0	rtolap Paryany v ado	1 Sama dgn E
hoti panjong V 1 maka perband lul lul	ingan ponjuny v te x = 4 v (cs 0 = 4 v v = 4	rtolap Paryany v ado	/ Sama dgn E
hali panjong V 1 maka perband	ingan ponjuny v to $ x = 4 v $ $ Cos o = 4 v $ $ v = 4$ $ v (os o)$ $ v = 4 : Cos o$	rtalap Paryany v ado	loh
koli panjang V i maka perband lul lu lux lul cos s lux = 4 v lul 7. Proyeksi vektor b = (2,0,1) pod	ingan ponjuny v to $ x = 4 v $ $ Cos o = 4 v $ $ v = 4$ $ v (os o)$ $ v = 4 : Cos o$	rtalap Paryany v ado	loh
kali panjang V i maka perband lul lul	ingan ponjuny v te $ x = 4 v $ $ COS O = 4 v $ $ U = 4$ $ V (OOO)$ $ V = 4 : COS OOO$ $ V = 4 : COS OO$	rtalap Paryany v ado	loh
hali panjong V 1 make perband	ingan ponjuny v te $ x = 4 v $ $ COS O = 4 v $ $ U = 4$ $ V (OOO)$ $ V = 4 : COS OOO$ $ V = 4 : COS OO$	rtalap Paryany v ado	loh
hali parjong V make perband	ingan ponjuny v te $ x = 4 v $ $ COS O = 4 v $ $ V = 4$ $ V = 4 : Cos O$ $ V = 1 : Cos O$ $ V $	rbalap Parjany v ado	loh
hali parjong V make perband	ingan ponjuny v te $ x = 4 v $ $ COS O = 4 v $ $ U = 4$ $ V (OOO)$ $ V = 4 : COS OOO$ $ V = 4 : COS OO$	rbalap Parjany v ado	loh
hali panjong V 1 make perband	ingan ponjuny v te $ x = 4 v $ $ COS O = 4 v $ $ V = 4$ $ V = 4 : COS O$ $ V = \frac{1}{ C ^2 \cdot C}$ $ V = \frac{2}{\sqrt{8^2 \cdot (C)^2 \cdot 2}}$	rhadap Parjang v ado	loh
hati parjong V make perband	ingan ponjuny v te x = 4 v COS 0 = 4 v V = 4 V = 4 : COS 0 V = 4 : COS 0 V = 4 : COS 0 V = 4 : COS 0 $ V = \frac{1}{ C ^2 \cdot C}$ $ C = \frac{2}{ C ^2 \cdot (C)^{-2}}$ $ C = \frac{2}{ C ^2 \cdot (C)^{-2}}$	rhadap Parjang v ado	loh
hati parjong V make perband	ingan ponjuny v te $ x = 4 v $ $ COS O = 4 v $ $ V = 4$ $ V = 4 : COS O$ $ V = \frac{1}{ C ^2 \cdot C}$ $ V = \frac{2}{\sqrt{8^2 \cdot (C)^2 \cdot 2}}$	rhadap Parjang v ado	loh
hati parjong V make perband	ingan ponjuny v te x = 4 v COS 0 = 4 v V = 4 V = 4 : COS 0 V = 4 : COS 0 V = 4 : COS 0 V = 4 : COS 0 $ V = \frac{1}{ C ^2 \cdot C}$ $ C = \frac{2}{ C ^2 \cdot (C)^{-2}}$ $ C = \frac{2}{ C ^2 \cdot (C)^{-2}}$	rhadap Parjang v ado	loh

No.		
Datas		

8.	Diketahui ñ = 3 i t3 j + k dan r = 2 i th. Panjang proyews vektor skalar vektor n pala
	vektor radalah
	$ c = \frac{n \cdot r}{ c }$
	$ C = \frac{n \cdot r}{ r }$ $= \frac{(3_1 3_1 1)(2_1 0_1 1)}{(2^2 + 0^2 + 1^2)}$:
	122+02+12
	$= \frac{6+0+1}{\sqrt{5}} = \frac{7}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{7\sqrt{5}}{5}$
	15 , 15 (5
	$ c = \frac{7}{5} \sqrt{s} \alpha.$
9.	Panjong Proyeks; $a = \begin{pmatrix} -2 \\ 8 \end{pmatrix}$ pada $b \begin{pmatrix} p \\ 4 \end{pmatrix}$ adalah 8. Nilai $p = \begin{pmatrix} -2 \\ 8 \end{pmatrix}$
	a.b = (8) . (P) Panjang Proyeksi vektor a pada b=8
,	$= -2(0) + 8p + 4(4) \frac{a \cdot b}{b} = 8 (p^2 + 16)$
	$= 8 p + 16$ $\frac{8p+16}{\sqrt{p^2+16}} = 8$ $\frac{(p+2)^2 = (p^2+16)}{(p+2)^2 = (p^2+16)}$
	$ \sqrt{ p^2 + 16 } = 8 $ $(p+2)^2 = (p^2 + 16)$
	111 - P2+4P+4 = P2+16
	= \\ \perp^2 + 16 \\ \sqrt{\frac{1}{R^2 + 16}} \\ = 8 \\ 4 \pa = 16 - 4
	4P = 12
	ρ=3 c.
<u>y</u>	
	Dihetahi U = 6;+3j - 74 dan V = 2; +3j-4. Vehter proyeks: Ortogonal U Pada V
	ablah
<u> </u>	$\left(\frac{(\upsilon \cdot v)}{ v ^2}\right) \cdot V = \left(\frac{(\upsilon \cdot v)}{ v ^2}\right) \cdot V$
<u>+</u> .	$\frac{28}{14}$). (2.31)
	$ V = \sqrt{2^2 + 3^2 + (-1)^2}$ 2 (2,3,-1)
	$= \sqrt{4+9+1} = (4.6.2) d.$
	= 514
	IVI2 = 14
	U.V. (6131-7) . (2131-1)
	6.2+3.3+(-7)(-1)
	= 12+9+7:
	= 28

		Pate;	
11.	Jiha velitor z merupowan pro	yeusi dari Vehtor x = J-53,3,1	pada y=(1323)
	maha 121 =	Part San	234.1
	1x1: \(-\sqrt{3})^2+32+12	Proyels; velitor × Pada velitor	y, namahan 2.
	= \(3 + g + 1 \)	121 : X·Y	
	= √13	TYI	
	171 = \((\sqrt{3})^2 + 22 + 32	= (-\3 i + 3j + 4) (\3i + 2j +	3k)
	= \(3 + 4 + 9 \)	4	
	= 16 = 4	-3+6+3 . 6 . 3 e.	
		4 7 2-	
			1
(2.)	Veltor x dyn ponjang (5 m	embiot Sulut lancip dyn Vektor g	1 = (3,4). Jiho
	vehtor × diproyeusikan he v	ektor y, Ponjany prvyeksinya 2.	vektor * tersebut
<u> </u>	odalah	4	
	misal veletor x - ai + bj dan		
	$maka = \sum_{n=1}^{\infty} x = \sqrt{a^2 + b^2} = \sqrt{s}$		
	02+62=5		
	b= \sum_{-a^2}(1		
	Panjuný Proyeksi x pada y ade ≈> c = ×·y	olah 2 maho:	
			John vehtor x
	$2 = \frac{\binom{9}{6}\binom{3}{4}}{\sqrt{3^2+4^2}}$	10 = 3a+4b	oclaloh
	7 = \(\frac{3^2+4^2}{}\)	10 = 3a + 4 \ 5-a2	=> x=(2)=2i+j
	D - 1 - 1	10-30= 4 5-02	otav
	$\frac{2 = 3a + 4b}{5}$	$(10-3a)^2 = 16(5-0^1)$	=> x= (1)=21+5j
	10 . 20 (0)	= 9a2-60a +100 = 8v -16a2	b.
	10 · 3a+4b (2)	25 0 ² -60 0 + 20 = 0	
		5a ² -(2a + 4 = 0	
		(5a-2)(a-2)=0	
		a=2 a tov a: 2/5	
		Untuk a: 2 -> b = 15-22=1	•
		Untuk a= 2/5 -7 b= \sis-4/25	
		= \\ \frac{121}{25} \cdot \frac{11}{5}	
		43 3	BOLL

13.	2 adolah hoordinat titih berat segitiga PQR. Jiha P(1,2,6), Q(45,3), dan
	R(412,3) maka koordinat titik berat Segitiqu PQR adalah
	2 = 1 (P+Q+R)
	$=\frac{1}{3}(9+9+12)$
	2: 3(3,3,4) a.
4	Jiha 2 merupolan titih berat segitiga ABC dgn A(2,3,5),13(3,6,14) dan
	((2,2,4) maka koordinot titih 2 adalah
	AD - DC
	0 = 4 + C = (2.7.5) + (2.241)
	2 2
	$0 = (2, \frac{5}{2}, \frac{9}{2})$
	B2:70 = 2:1
	2 = 2d +b = 2d+b
	• -
	$=\frac{1}{2}\left[2\begin{pmatrix}\frac{2}{5/2}\\9/2\end{pmatrix}+\begin{pmatrix}\frac{3}{6}\\4\end{pmatrix}\right]$
	$=\frac{1}{3}\left[\begin{pmatrix} 4\\ 5\\ 4 \end{pmatrix} + \begin{pmatrix} 3\\ 4\\ 4 \end{pmatrix}\right] = \frac{1}{3}\begin{pmatrix} 2\\ 11\\ 13 \end{pmatrix}$
	* Weardinot Z adalah $(\frac{7}{3}, \frac{11}{3}, \frac{13}{3})$ E.
	72
15.	Dihetahui Segitique ABC dgn A(4,-1,2), B(1,3,-2) don ((1,4,6) - Koordinat
	Litin berut 4 ABC adolph
	$x_2 = \frac{1}{3}(x_1 + x_2 + x_3) = \frac{1}{3}(4 + 1 + 1) = 2$
	Yz = /3 (y,+ /2+ /3) = /3 (-1+3+4) = 2
	Zz = 1/3 (21+ 22+23) = 1/3 (20-2+6) = 2
	hoordinot titih berut = (2,2,2) 0-