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U	AIC/	
to the second second second second second	21 +12 / -12/8	
	Question # 3	
(0)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	The shortest distance b/u l, and le is $\sqrt{21}$	- ,
	$y_1 = QA + \lambda AB$ $y_2 = QA + \lambda AB$	
	Y1 = 1: +3 + 12? -5	
	$\begin{vmatrix} 1 & -\frac{7}{4} & -\frac{1}{4} \\ \frac{1}{4} & -\frac{1}{4} \end{vmatrix} = \begin{vmatrix} 1 & -\frac{1}{4} \\ \frac{1}{4} & -\frac{1}{4} \end{vmatrix}$	
	$l_2 = \overline{v_2} = \begin{bmatrix} 0 \\ 1 \\ + \end{bmatrix} \begin{bmatrix} 0 \\ -2 \\ 1 \end{bmatrix}$	
	$0 = \frac{(b_1 + b_2) - (a_2 - a_1)}{(b_1 \times b_2)}$	

	$\frac{b_1 \times b_2 - i j k}{-2 - 1 0}$	
	= -i + 2i + 4k	
	$ b_1 \times b_2 = \sqrt{21}$	
	(a2-01) = - ti+tk	
	$D = \frac{(-i^2 + 2i^2 + 4i^2) - (-ti^2 + ti^2)}{\sqrt{21}}$	
	$\sqrt{21} = \pm \pm 4t/\sqrt{21}$	
	21 = 5t + = 21/5	
(6)	$\overline{y_1^2} = 21113 + 1(27-5)$	
	$72^{2} = \hat{j} - 21\hat{k} + 12(-2\hat{j} + \hat{k})$	
	TI = Y = OR + XAB + MAC	<u> </u>
	$\chi^{2} = -21\hat{1} + \hat{1} + \frac{1}{2} + \frac{1}{2} \left(-2\hat{1} + \frac{1}{2}\right)$	
	II .	

							11116
		4	2				
			1 1	b)	C35 Q	Fram Fram	
	\$	(02-1)			B		> × ×
	. 340	2 6	+ 29·4 (21) ² (5)	1/2	a, b) +	1. 4.1.4. com	100 ×
		23.4 23.4	2 2	1, 1	a2 62	6 8 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		4		725	+		2 > 52
		0.1	2.8		03 b3	sitor .	20
			S			- N	
1 1 1	1 1 1					1 1 1 1	

DATE : ___/__/_ (0) -21-8 180-126-78 Question ## 5 Sel poin + (-2,1)

(1) = (a, 0) = (B, 0) elpostien of Direction ×=-a. ×=-8 Direction $8^2 = (4)^2 + (-3)^2$ -16 mith. fo 00 niglat 25 42- 100x 5=8 40-24 Compase year hior so faces Compose DATE: _/_/_

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	JAIE:/	
	equartion of circle - (x++h)2+(y-k)=3	-0
*		
	$(x+4)^{2} + (y+2)^{2} = y^{2}$ (x,y) = (-2,-1)	
	x (x,y) = (-2, -1)	
	$(-2+4)^2+(-1+2)^2-3^2$	
	x ² =5	
	put the values	
	$(x+4)^{2}+(y+2)^{2}=5$	
(6)	sol 1	
	equation of circle. $(x-h)^{2} + (y-k)^{2} = x^{2}$ Let $x = 0$, $y = b$ at $p_{0in} + (y, 0)$	
	$\frac{(x-h)^{2}+(y-k)^{2}-x}{x-1}$	
	1 Pain + (4,0)	
	7	
•	$(4)^{2} + (-6)^{2} = 8$	
	$16 + 6^2 - 8^2 - 0$	
	a + poin + (a) 2	
	$\frac{(0)^2 + (2-6)^2 - y^2}{(2-6)^2 - y^2} = 2$	
	composing egs.	A = 1
	$16 + 6^2 = (2 - 6)^2$	
	12 + 46 = 0	
	b = - >	
	put the volues in O	
- 11-		

(e)	$\left(\frac{x}{25}\right)^2 + \left(\frac{y}{16}\right)^2 = 1$	
	(25) (16)	-
	compre with	
	x + y = x + y	
	0° 5° 4°	
	a = 5 b = 4	
	6 = 9	
	$C = \sqrt{a^2 - b^2} - \sqrt{2s - 16} = \pm 3$	
	$F_1=(3,0)$	<u> </u>
	F2-(-3,0)	
	length of major axis - 2a. = 2(5) = 10	
	= 2(5) = 10	
	a L	
		-
	7	
	-4	
(C)	-Q-	
(4)	59	
	major 0×15 = 10	
	minal QX15 = 1	
	20 = 10	1
	a = s	
	26 = 8	
	6 = 9	 -
	· Equation of ellipse along	
	x-0+is 2 1	
	$\frac{x - a + i \cdot \zeta}{\left(\frac{x}{a}\right)^2 + \left(\frac{y}{b}\right)^2 - 1}$	
	() () 2 1	77 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	$\left(\frac{x}{s}\right)^2 + \left(\frac{y}{y}\right)^2 - 1$	

DATE: ___/_ T2 = 8, - OA + 1 AB + UAD

2 0 00	S N X	N~ &	7, - 7,	8 3	multiply 20	2 2 + 6	but X + 4M	V 1 4.
4-1+4+2	1 + 1 + 3 1 + 1 + 2 1 + 2 + 2 1 + 2 + 2		1 Part C		pis yag	+	-23 th value	1 22
20		+ 1 - 1 +	AB + MAD		8 64	1 4 - 23	Sin	21
9		2 × 2			184		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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					5-		
473							
8 2 4 2 5 4 (-7)2 - 8 2 4 2 5 4 (-7)2 - 05 1 4 14	0						
	= 12-15			7/2			
13.6							
							Tel

Question #2 î + 6; +3£ 0=2;+7;+10) DATE: ___/___/___

		,
	2 00 40 10 10 10 10 10 10 10 10 10 10 10 10 10	
	(0 1) ((1) 10) 11	
	$=(2-\lambda)\hat{i}-\hat{j}(41-12)+4\hat{k}$	
7		
	$a_{2}-a_{2} = \begin{bmatrix} 2 & 7 & -5 \\ 6 & -4 & = 5 \\ 3 & -1 & 4 \end{bmatrix}$	
	6 - 9 - 5	
	$\begin{bmatrix} 3 \end{bmatrix} \begin{bmatrix} 1 $	
	$(6 + \times 62) = \sqrt{(2-\lambda)^2 + (4\lambda - 2)^2 + (4)^2}$	
	$=\sqrt{17/^2-1000}+164$	
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(61x62) · (~-0-2) = [(2-1); -](41-12) + 48]· (-5?+2]+	.0)
	+ 4 k J · C-5"+2" +	(E)
	$=-5(2-\lambda)-2(41-12)+16$	and an
-	_ 30 - 3)	
	= · · · · · / /	
-		
	d = (b1 x b2) (a,-a2)	
	161 × 62	
	3 - 3	7.0
	V17/2-100/+164	
	V 1/1 - 100/1-10-1	
	Taking square en 6.5.	
	$a = \frac{(30 - 31)^{2}}{(\sqrt{17} \lambda^{2} - 150) + 164}$	
	[N=12-12] 1/4]2	
	C TA ISO PTICE	1
	1 0.2	
1 11 1	a = 900 + 912 - 100 k	
	17 /2 - loa) + 114	1

$$\frac{144\lambda^{2} - 720\lambda + 576 - 0}{9(36)^{2} - 180\lambda + 194) - 0}{9(36)^{2} - 951 + 36) - 0}$$

$$\frac{4(3)^{2} - 951 + 36}{4(3)^{2} - 5\lambda + 4} - 0$$

$$(4)^{2} - 5(4) + 4 = 0$$

$$0 = 0$$

$$pu + 1 = 1 \quad \text{in eq } 0$$

$$(1)^{2} - 5(1) + 4 = 0$$

$$0 = 0$$

$$T_1 = \overline{S_1} = \overline{OA} + \overline{SAB} + \overline{AB}$$
when $A = A$

multiply of 10 by 4 $\frac{4y}{4y} = 16 - 41 + 12 - 3$ Add eg 0 and (2) $\frac{2}{4y} = 16 - 41 + 2$ X+44 = 23 + 70 $U = \times + \frac{4y - 23}{7}$ y+2=3+5(x+4y-23)multiply bis by 7 7y+72 = 21 +5x+20y-115 -5x-13y+72+94=0 5x +13y - 72 -94

 $Q = (os') \times (\pi)$ $|\mathcal{T}_1| |\mathcal{T}_2|$ $|\mathcal{T}_1| = |\mathcal{S}| |\mathcal{S}|$