	Date No.
	11×11 = 12+12+(-1)2 = 13 = 1.73
	COSD = 11711-11811 - 43 4133 45
1	cos0 = 11/41 11/11 d3 d3 d3 d6
3	
	0 = cos-1 (-2) = 2.06 rad
2.	117all= 71all= 7
	3a. 7b = 21 a. 6 = 21(3) = 7
	Q.(b-s)= q. b-q. c= ==================================
	(a+b+ s). (a-2) - a.a 2 + +2 + - b.b + a.c. b.s
	= 1-1+ \frac{1}{8}-\frac{1}{7}=-\frac{1}{56}
3-	$3^{\frac{1}{2}} (\cos \theta = \frac{\frac{1}{2} \cdot \frac{1}{2}}{\ \mathbf{k}\ \ \mathbf{k}\ } = \frac{3}{2(3)} \cdot \frac{1}{2}$
	10 -> 1 1 + x = \((2 + 3 (\frac{1}{2}))^2 + (3 sin((\cor-1(\frac{1}{2})))^2 = 4.36
4.	112+12112 - (2+12) - (2+12) = 2 - 2 + 2 - 2 - 4 - 0
	x · (で- x) · だ · エ - ラー - ラー
	(1)-(2)=> 4=· ½= 4-81=-77
	~ ~
5.	axb = (-3) x (3) = (-3) = -1 (-3) since x 20
	$C = \frac{1}{\sqrt{1^2 + (-3)^2 + 0^{-1}}} \begin{pmatrix} -3 \\ -3 \end{pmatrix} = \frac{1}{\sqrt{10}} \begin{pmatrix} -3 \\ -3 \end{pmatrix} = \begin{pmatrix} -3/470 \\ -3/470 \end{pmatrix}$
G-	$\overrightarrow{R} = \left(\frac{1}{3}\right) - \left(\frac{1}{2}\right) = \left(\frac{1}{3}\right)$
	$\ \vec{R} \times \mathbf{y}\ \ \left(\frac{4}{7} \right) \times \left(\frac{7}{9} \right) \ \ \left(\frac{3}{2} \right) \ \sqrt{2^{2} + (-3)^{2} + (-2)^{2}}$
	P(0,1,2) - (1)-4 x 12 12 12 12
	= 17 = 2.92
7.	1
	11×11 185342+45 400
	$\frac{1}{S(2,8,2)} \left(\frac{-56}{\sqrt{46}} \right) \left(\frac{1}{\sqrt{46}} \right) \left(\frac{8}{2} \right) = \left(\frac{2}{8} \right) = \frac{56}{4} \left(\frac{8}{4} \right) = \left(\frac{-8/3}{17/5} \right)$
	- 37 (Ja6 1 (2) 46 (1) (- 1/3)
. ,	À'ZONE

8. From equation (0,0,\frac{1}{2}) lets on place. (\frac{1}{6},\frac{1}{2}) \dist*: \frac{1}{10\frac{1}{2}\frac{1}{2}} \dist*: \frac{1}{10\frac{1}{2}\frac{1}{2}\frac{1}{2}} \dist*: \frac{1}{10\frac{1}{2}\frac{1}{2}\frac{1}{2}} \dist*: \frac{1}{10\frac{1}{2}\frac{1}{2}\frac{1}{2}} \dist*: \frac{1}{10\frac{1}{2}\			
dist $\frac{(\frac{3}{6}x)^{2}}{(\frac{3}{2}x)^{2}} = \frac{1}{\sqrt{17}} = 0.24$ $\frac{(\frac{3}{2})^{2}}{(\frac{3}{2}x)^{2}} = \frac{10.10-8}{\sqrt{10.466}} = \frac{12}{\sqrt{2.466}} = 0$ $\frac{(\frac{3}{2})^{2}}{(\frac{3}{2}x)^{2}} = \frac{(\frac{3}{2})^{2}}{\sqrt{10.466}} = \frac{12}{\sqrt{2.466}} = 0$ $\frac{(\frac{3}{2})^{2}}{\sqrt{2}} = (\frac{3}{2}x)^{2} = \frac{(\frac{3}{2})^{2}}{\sqrt{2}} = \frac{(\frac{3}{2})^$	8.	From equation (0,0, 1) lies on plane.	
$Q_{1} = \frac{\left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)}{\sqrt{\frac{12}{3}} \cdot \sqrt{\frac{12}{3}} \cdot \sqrt{\frac{12}{3}}} = \frac{12}{\sqrt{\frac{12}{3}} \cdot \sqrt{\frac{12}{3}}} = 12$	1		
$Q_{1} = \frac{\left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)}{\sqrt{\frac{12}{3}} \cdot \sqrt{\frac{12}{3}} \cdot \sqrt{\frac{12}{3}}} = \frac{12}{\sqrt{\frac{12}{3}} \cdot \sqrt{\frac{12}{3}}} = 12$		dist: 1= 17 = 0.24	
10. A vector // plane: $(\frac{1}{3})^{2} - (\frac{1}{3})^{2} = (\frac{2}{3})^{2}$ viornoid to plane: $(\frac{1}{3})^{2} - (\frac{1}{3})^{2} = (\frac{2}{3})^{2}$ $C = (\frac{1}{3}, \frac{1}{3})^{2} = 1 + 1 - 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +$	A	the state of the s	
10. A vector // plane: $(\frac{1}{3})^{2} - (\frac{1}{3})^{2} = (\frac{2}{3})^{2}$ viornoid to plane: $(\frac{1}{3})^{2} - (\frac{1}{3})^{2} = (\frac{2}{3})^{2}$ $C = (\frac{1}{3}, \frac{1}{3})^{2} = 1 + 1 - 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +$	۹.	×: (3) (3n) 10+10-6 = 12	
10. A vector plane: $(\frac{1}{4})^{2} - (\frac{1}{3})^{2} = (\frac{1}{4})^{2}$ viornal to plane: $(\frac{2}{4}) \times (\frac{1}{1})^{2} = (\frac{2}{4})^{2} \times (\frac{1}{1})^{2} = (\frac{2}{1})^{2} = 2 \times (\frac{1}{1})^{2}$ $= (\frac{1}{1})^{2} \times (\frac{1}{3})^{2} = 1 + 1 - 41.5 = -\frac{1}{2}$ 11. hornal to new plane: $(\frac{1}{1}) \times (\frac{5}{10})^{2} = (\frac{1}{3})^{2} = 2 \times (\frac{1}{10})^{2}$ $= (\frac{5}{10}) \cdot (\frac{1}{10})^{2} = -\frac{1}{10}$ 12.		*	
10. A vector plane: $(\frac{1}{4})^{2} - (\frac{1}{3})^{2} = (\frac{1}{4})^{2}$ viornal to plane: $(\frac{2}{4}) \times (\frac{1}{1})^{2} = (\frac{2}{4})^{2} \times (\frac{1}{1})^{2} = (\frac{2}{1})^{2} = 2 \times (\frac{1}{1})^{2}$ $= (\frac{1}{1})^{2} \times (\frac{1}{3})^{2} = 1 + 1 - 41.5 = -\frac{1}{2}$ 11. hornal to new plane: $(\frac{1}{1}) \times (\frac{5}{10})^{2} = (\frac{1}{3})^{2} = 2 \times (\frac{1}{10})^{2}$ $= (\frac{5}{10}) \cdot (\frac{1}{10})^{2} = -\frac{1}{10}$ 12.		:., 8=0 = (05" (12166")= 1.13 rad	į
1. hormal to new plane = $\binom{1}{1} \times \binom{5}{5} = \binom{2}{5} = 2 \binom{-2.5}{1.5}$ Pance welf of x=1 => a = -2.5, b=1.5 $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $\binom{5}{4} \cdot \binom{5}{1.5} \cdot \binom{3}{3} = \binom{3}{10} \cdot \binom{3}{10} = \binom{1}{10} \cdot \binom{3}{10} = \binom{3}{10} = \binom{3}{10} \cdot \binom{3}{10} = \binom{3}{1$			
1. hormal to new plane = $\binom{1}{1} \times \binom{5}{5} = \binom{2}{5} = 2 \binom{-2.5}{1.5}$ Pance welf of x=1 => a = -2.5, b=1.5 $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $\binom{5}{4} \cdot \binom{5}{1.5} \cdot \binom{3}{3} = \binom{3}{10} \cdot \binom{3}{10} = \binom{1}{10} \cdot \binom{3}{10} = \binom{3}{10} = \binom{3}{10} \cdot \binom{3}{10} = \binom{3}{1$	lo.	A vector // plane = (4)-(2)=(2)	
1. hormal to new plane = $\binom{1}{1} \times \binom{5}{5} = \binom{2}{5} = 2 \binom{-2.5}{1.5}$ Pance welf of x=1 => a = -2.5, b=1.5 $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $\binom{5}{4} \cdot \binom{5}{1.5} \cdot \binom{3}{3} = \binom{3}{10} \cdot \binom{3}{10} = \binom{1}{10} \cdot \binom{3}{10} = \binom{3}{10} = \binom{3}{10} \cdot \binom{3}{10} = \binom{3}{1$		1 - atro = (2) x (1) = (2) = 2 (0.5) since coeff of x=1 =) a = 1 , b=-3	
1. hormal to new plane = $\binom{1}{1} \times \binom{5}{5} = \binom{2}{5} = 2 \binom{-2.5}{1.5}$ Pance welf of x=1 => a = -2.5, b=1.5 $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $c = \binom{5}{4} \cdot \binom{-2.5}{1.5} = -4$ $\binom{5}{4} \cdot \binom{5}{1.5} \cdot \binom{3}{3} = \binom{3}{10} \cdot \binom{3}{10} = \binom{1}{10} \cdot \binom{3}{10} = \binom{3}{10} = \binom{3}{10} \cdot \binom{3}{10} = \binom{3}{1$		= (o.s.). (\frac{1}{2}) = 1+1-4.5 = -\frac{5}{2}	ri .
2 $\frac{(2)^{1}}{(2)^{1}}$		C- (_1.5) (3)	
2 $\frac{(2)^{1}}{(2)^{1}}$	11	hand be not be a (1) x (8) = (-5)=2 (-2.5) Proce soft of see (-2) a = 2.5, b=1.5	
2	(1-	(5) (-2.5) -4	
$ \frac{\binom{3}{5}13 \cdot \binom{3}{3}}{\sqrt{3^{2}+18^{2}+3^{2}}} = \frac{d}{\sqrt{122}} $ $ \frac{13.}{\sqrt{3^{2}+18^{2}+3^{2}}} = \frac{d}{\sqrt{3^{2}+18^{2}+3^{2}}} $ $ \frac{13.}{\sqrt{3^{2}+18^{2}+3^{2}}} = \frac{d}{\sqrt{3^{2}+18^{2}+3^{2}}} $ $ \frac{14.}{\sqrt{3}} = \frac{d}{\sqrt{3}} $ $ \frac{14.}{\sqrt{3}} = \frac{d}{\sqrt$		c= (8). (s) = 1	
$ \frac{\binom{3}{5}13 \cdot \binom{3}{3}}{\sqrt{3^{2}+18^{2}+3^{2}}} = \frac{d}{\sqrt{122}} $ $ \frac{13.}{\sqrt{3^{2}+18^{2}+3^{2}}} = \frac{d}{\sqrt{3^{2}+18^{2}+3^{2}}} $ $ \frac{13.}{\sqrt{3^{2}+18^{2}+3^{2}}} = \frac{d}{\sqrt{3^{2}+18^{2}+3^{2}}} $ $ \frac{14.}{\sqrt{3}} = \frac{d}{\sqrt{3}} $ $ \frac{14.}{\sqrt{3}} = \frac{d}{\sqrt$	1-	154 1 1 (0 - 0) 4 014 1 1 1 (0 0 4)	
13. $\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OA} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 2 \\ 8 \end{pmatrix} = \begin{pmatrix} 7 \\ 9 \end{pmatrix}$ $\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OC} \Rightarrow \overrightarrow{OB} = \overrightarrow{CP} + \overrightarrow{OC} = \overrightarrow{AB} + \overrightarrow{OC} = 2 \begin{pmatrix} 7 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 7 \\ 9 \end{pmatrix}$ $\overrightarrow{D} : (-2, 44, 3)$ 14. $\overrightarrow{B} = \overrightarrow{OB} - \overrightarrow{OA} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9$	12	1 plane contains (0,0,0) & 210 plane contains (0,0,3)	
13. $\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OA} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 2 \\ 8 \end{pmatrix} = \begin{pmatrix} 7 \\ 9 \end{pmatrix}$ $\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OC} \Rightarrow \overrightarrow{OB} = \overrightarrow{CP} + \overrightarrow{OC} = \overrightarrow{AB} + \overrightarrow{OC} = 2 \begin{pmatrix} 7 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 7 \\ 9 \end{pmatrix}$ $\overrightarrow{D} : (-2, 44, 3)$ 14. $\overrightarrow{B} = \overrightarrow{OB} - \overrightarrow{OA} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix} 9$		(315) (3) = d = 4 d = (41122 = (54.04)	
A = A + A		745-432 4125	
A = A + A		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
14. $\overrightarrow{B} = \overrightarrow{OB} - \overrightarrow{OA} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \end{pmatrix} = \begin{pmatrix} 9 \\ 9 \end{pmatrix} + \begin{pmatrix}$	13.		
14. B D AB = OB -OA = (?)-(;)=(?) AC = OC - OA = (?)-(?)=(?) Area = (AB × AC = (-?) × (-?) = (-?)			
15. Let y = AB x AZ = (\$) x (-3) = (-18)		Die (-2,4,3)	
15. Let y = AB x AZ = (\$) x (-3) = (-18)	1		
15. Let y = AB x AZ = (\$) x (-3) = (-18)	14.	$\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OA} = (?) - (?) = (?) + (?) $	<u>k</u>
15. Let y = AB x AZ = (\$) x (-3) = (-18)		A C Area = ((AB x AC) (= 1 (-6) x (-2) = (1 (24) = \frac{24}{54}) = \frac{3624242454545}{54}	
Volum: AD . y = (30) . (3) = 90 +50-56 2 84	15.	Let y = AB x AZ = (5) x (-3) = (-18)	
Volume: AD. y = (30). (3) = 90 +50-56 = 84			
		Volume = AD. V = (30). (-5) = 90 +50-56 = 84	
			- 4
	T _a -		"3