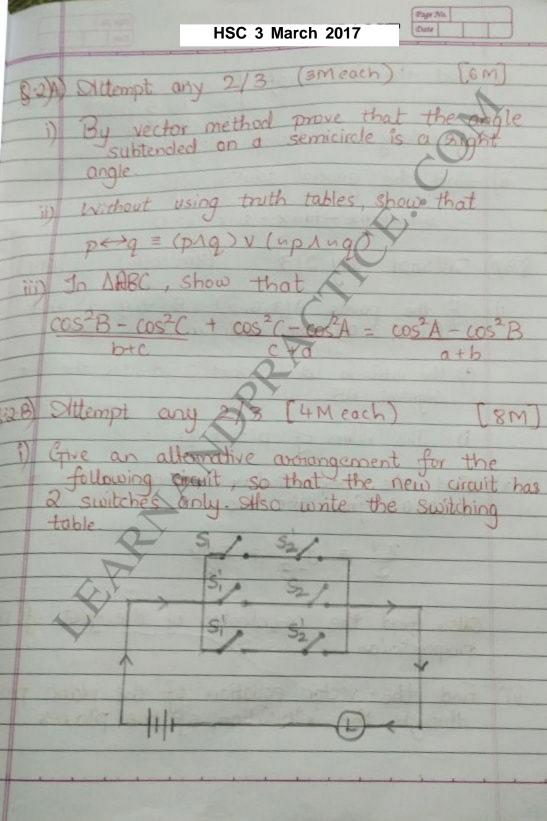
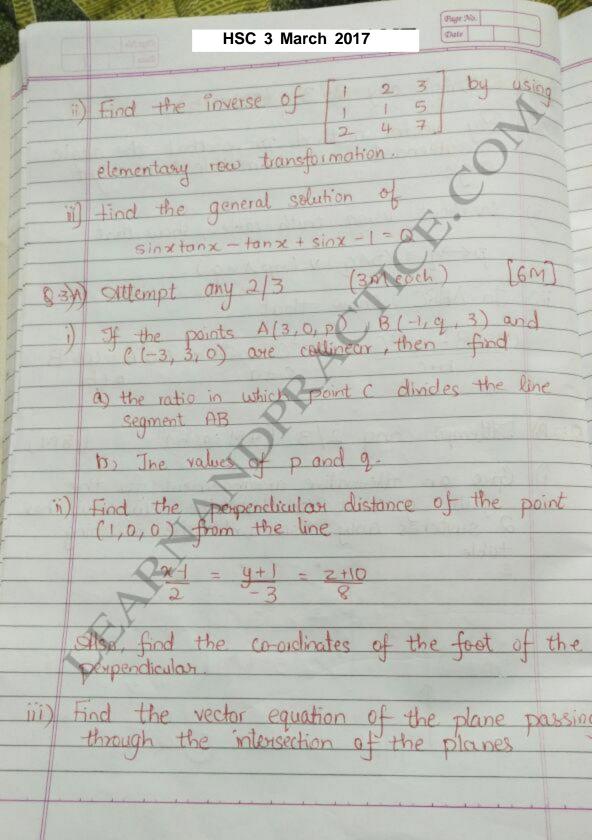
HSC 3 March 2017 Time : 3 Hrs Max. Mks: 80 SECTION-I Q1)A) Multiple Choice Question (2M each) 16M i) If a line makes an angle 45° with Y and Z axis, then find the angle which it makes with X-axis. (a) 7 (b) 7 (c) 7 (d) 7 2 ii) Find direction cosines of the line plansing through the points A (2,3,4) & 1 B(1,0,-2) Find value of q, if the equation 9x2+4xy+4y2+ax+by+c=0

	HSC 3 March 2017	Date
		nut and
	represents a pair of paralle	d lines.
	(1) 2 (0)-1	+ (d) 1
F 1 - 5	(a) -1 (b) 2 (c) -1	O'
B)	Sittempt any 3/5	-
		-1.2) and
- 5)	Show that the points (1 (3, 4, 3) are equidistance	from the plane
	F. (5i+2j-7K)=-8	15 (0)
100		
11)	Write the converse and inverse	of the following
	Statement	+ douglet +
	"If surface area decreases the	nen the pressure
	A 4 1 1 1	
iii)	If $A = \begin{bmatrix} 2 & -2 \\ 4 & 3 \end{bmatrix}$ then fin	ed At by the
		0
	adjoint method	
(vi	Find the Carlesian co-ordinate	es of the points
	Find the Cartesian co-ordinate whose polar coordinates are	(4,7)
	347 34	2
	the sector equation of	of the line
VA	massing through A (3,4,-7)	and B(1,2,3).
	Find the vector equation of through A (3,4,-7) Silso find the contesion for	n.
	Y .	7,000
For Solution		
visit: learnandpractise.wixsite.com/landp		
VISIT. TOWN		

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7. (21+2j-3k)=8; 7. (21+4j+3k)=7 and through the point (2,1,3). (33) Attempt any 2/3 (4Meach) (8M) i) Minimize Z = 20 x + 9y subject to 270, 470, 2x+4 > 36 & 6x+4 > 60 Also find the minimum value of Z. ii) Find the shortest distance between the following pair of line マ= (i+2jtk) + 2(i-j+k) & $\overline{Y} = (2\overline{1} + \overline{1} + 2\overline{k}) + u(2\overline{1} + \overline{1} + 2\overline{k})$ iii) If 0 is the acute angle between the line suppresented by equation $ax^2 + 2bxy + by^2 = 0$ then prove that tand = 2 Vh2-ab , silso find the conditions for perpendicular and coincident line. BY ALIRAZA LAKHANI