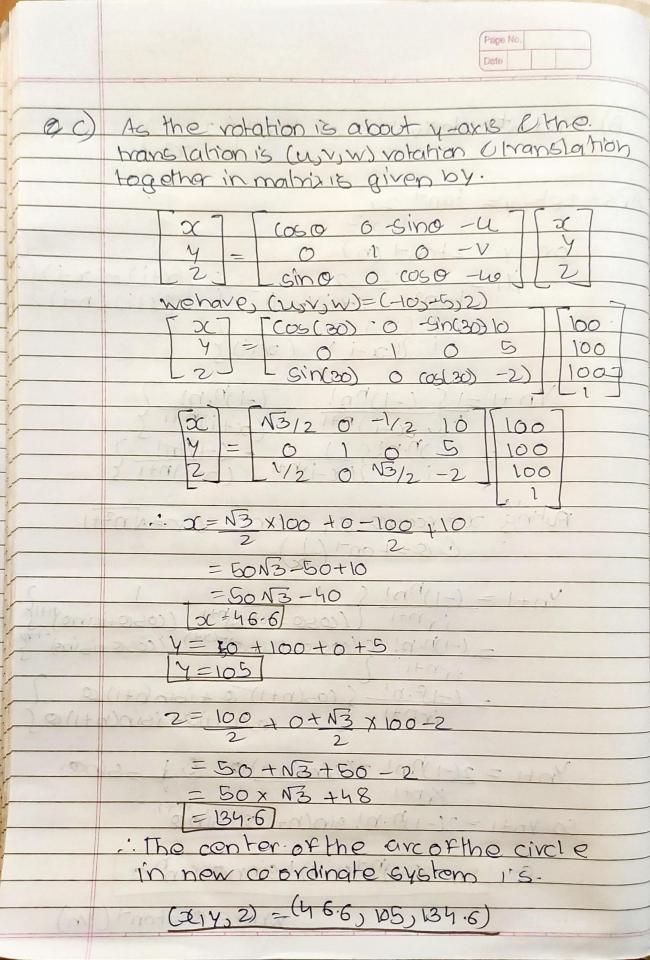


B) Find nth derivative of tant (200 or y = 2 tan-1 (n S(x+i) - (x-i)(Poling x = rcoso & = rsine & r= Nn2+1 & 0=+an (1) - (-1)2.n! (cos(n+1) a + isin(+1) a - coscattletisin(n+1)0 Yn+1 = 2(-1)n! 2/sin(n+1)@ (+ -sin@. So Yn+1 = 2(-1)h.n! sin(n+) a sino 80, yn=2(-1)n-1 (n-1)! sinno sin o where o =tant (h)



	Paga No. Date
(22)	Fill in the blanks -
A	Given a socione whose coordinates are given
	by A = (2,1) 13 = (3,1) (= (3,4) 1) = (3,4)
	Translate capture by 7 unils right & sunils
	down. Find new coordinates
1.00	The new coordinates ave-
1415-	A(9,-5) B(10,-5) C(10,-2) D(9,-2)
13	Given the line segment starting at a point (0,0) ending point is (8,1). Rotate line by 45 degree and find new coordinate.
	(0,0) ending point is (8,1). Rotate line by
	usacgree and find new coordingte.
Ans-	New coordinates are. \$ (4.9,6.3)
	Mr.
= 1	21-
9	nth benivative of y=sin3 (x)is
Ani:	$\frac{4n = 1 \left(3 \sin\left(\frac{n\pi}{2} + \alpha\right) - 3^n \sin\left(\frac{n\pi}{2} + 3\alpha\right)\right)}{4}$
1.18	4 (2 +32)
D	1-11 Derivative of y=2x cos(3x+4)
A 0	$4n = (13)^{N/2} \cdot e^{2x} \cdot \cos \left[3x + 4 + n \cdot \tan^{-1} \left(\frac{3}{2} \right) \right]$
1718-	41) = (13) · e · · (05 [35(1 4 1) 41)
1	
1	