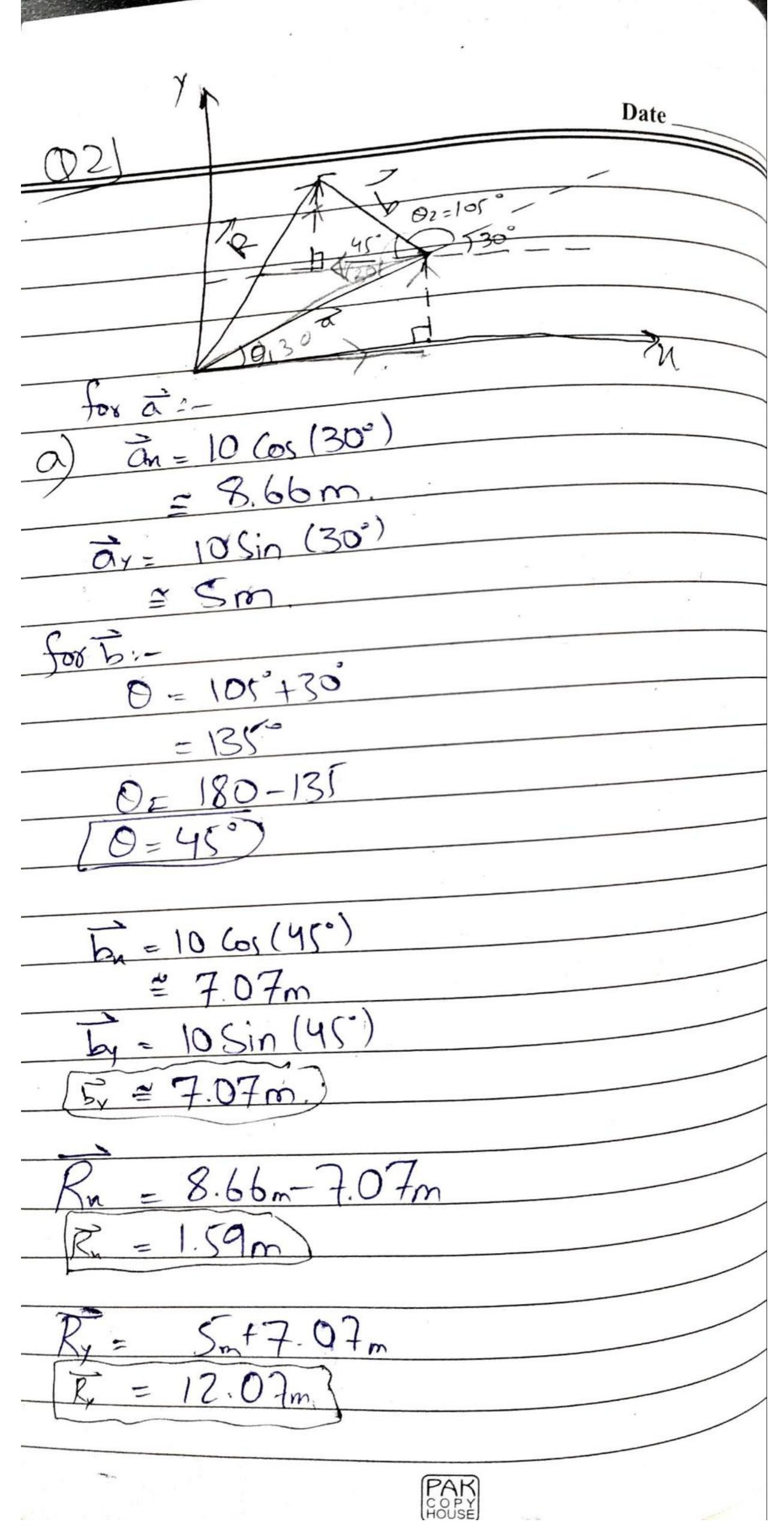
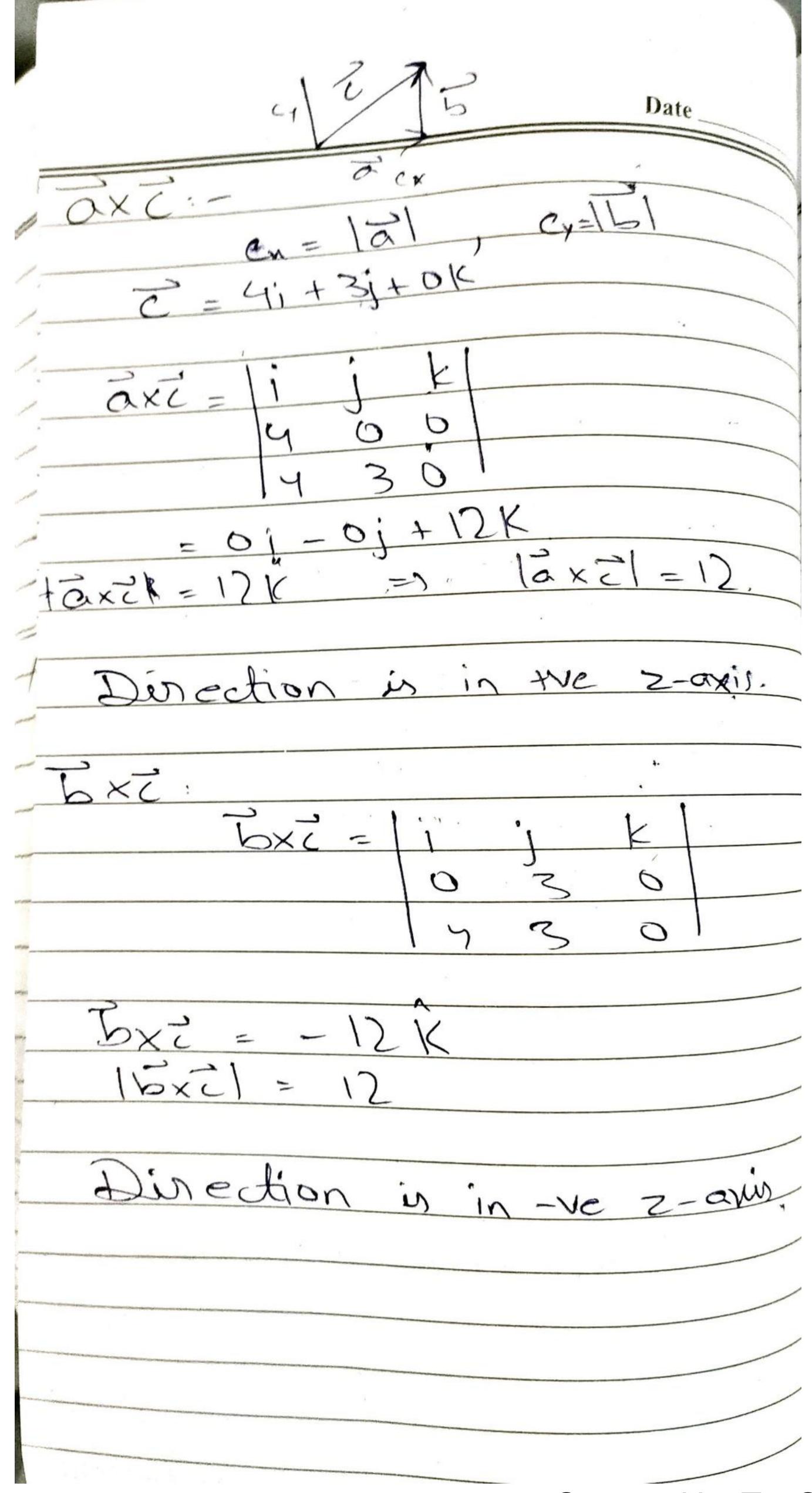
Abdul Rafay Siddiqui 20K-1710.
Applied Physics Date
Applied Physics Date Assignment - 1 (Vectors)
211 displacement = 7.3m, 0=30. M-component: y_1 , $\frac{73}{2}$
M-component: Os O = B ay
Gos 30° = ax
7.3
$a_x = 7.3 \times 60.30^{\circ}$ $a_x = 6.32 \text{ m}$
-component: Sin 0 = P
Sin 30° = ax
7.3
$a_{y} = \sin 30^{\circ} \times 7.3$ $a_{y} = 3.65 \text{ m}$

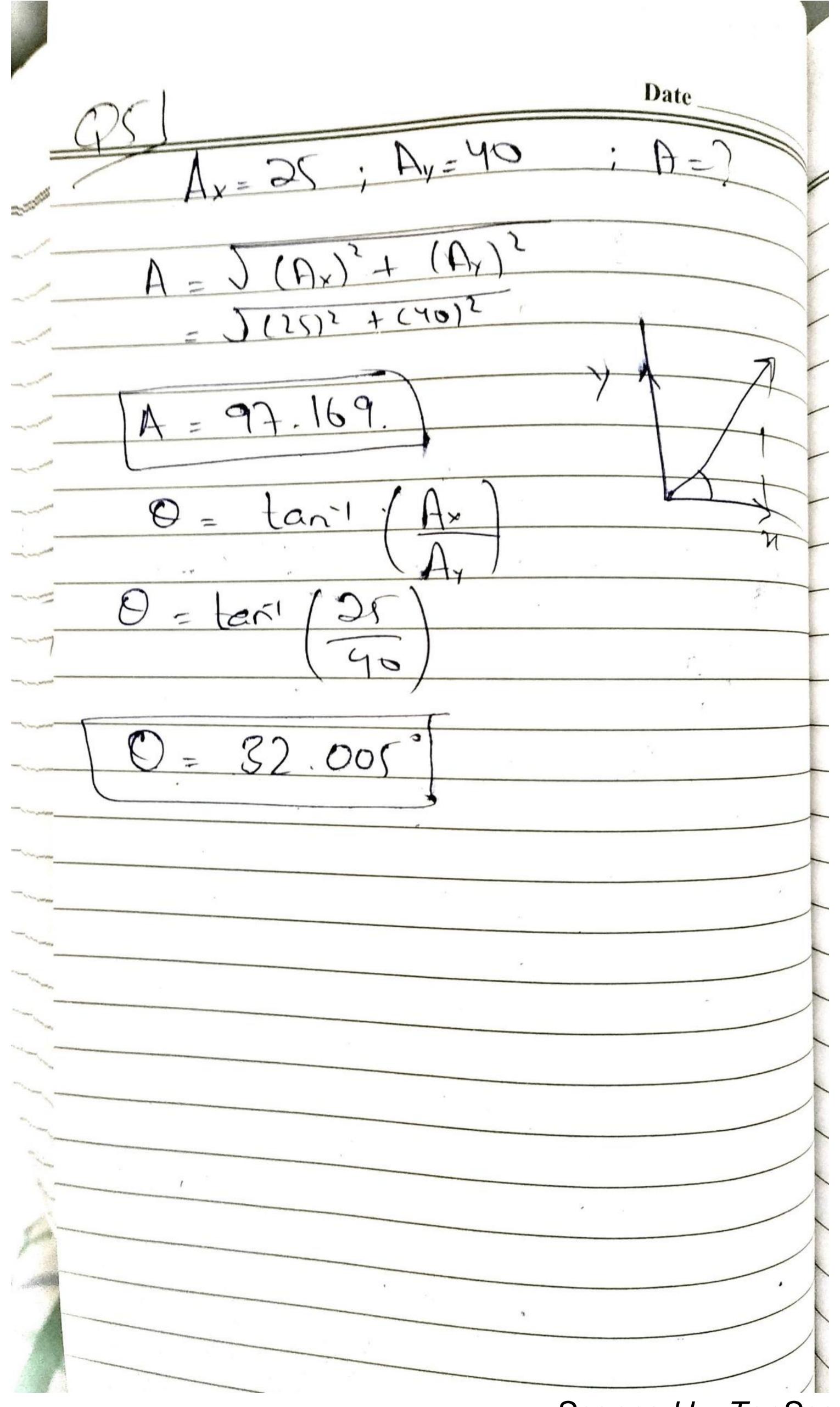


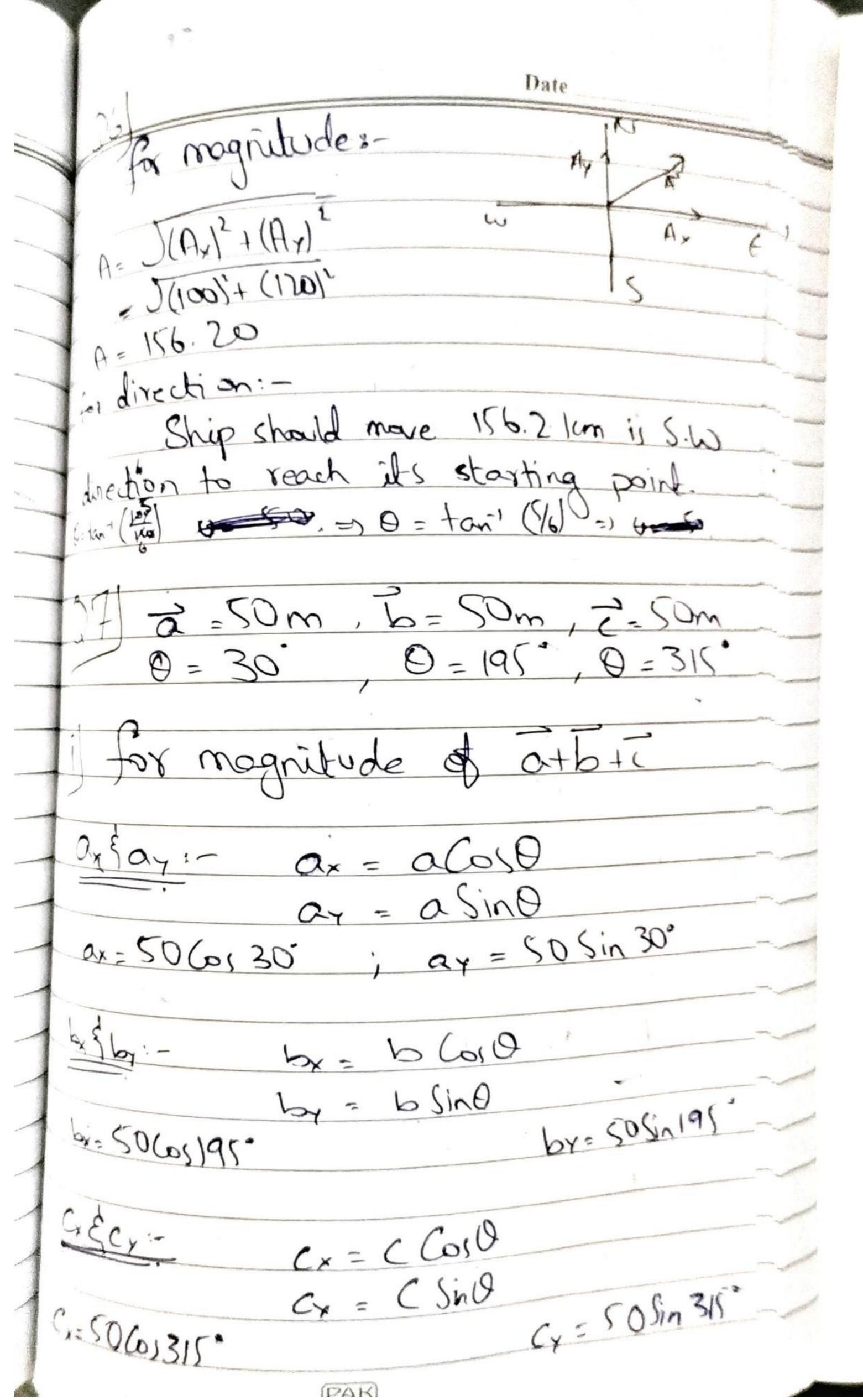
Date
b) $IRI = \int (1.59)^2 + (12.07)^2$
1 [[[[[[[[[[[[[[[[[[[
IRI = 12.175m
11R1 = 12.175
7 - 1
c) = tan'/Rv
NM
= tan-1/12.071
= Will 12.07
1.59
= 82.495
M = 83.51

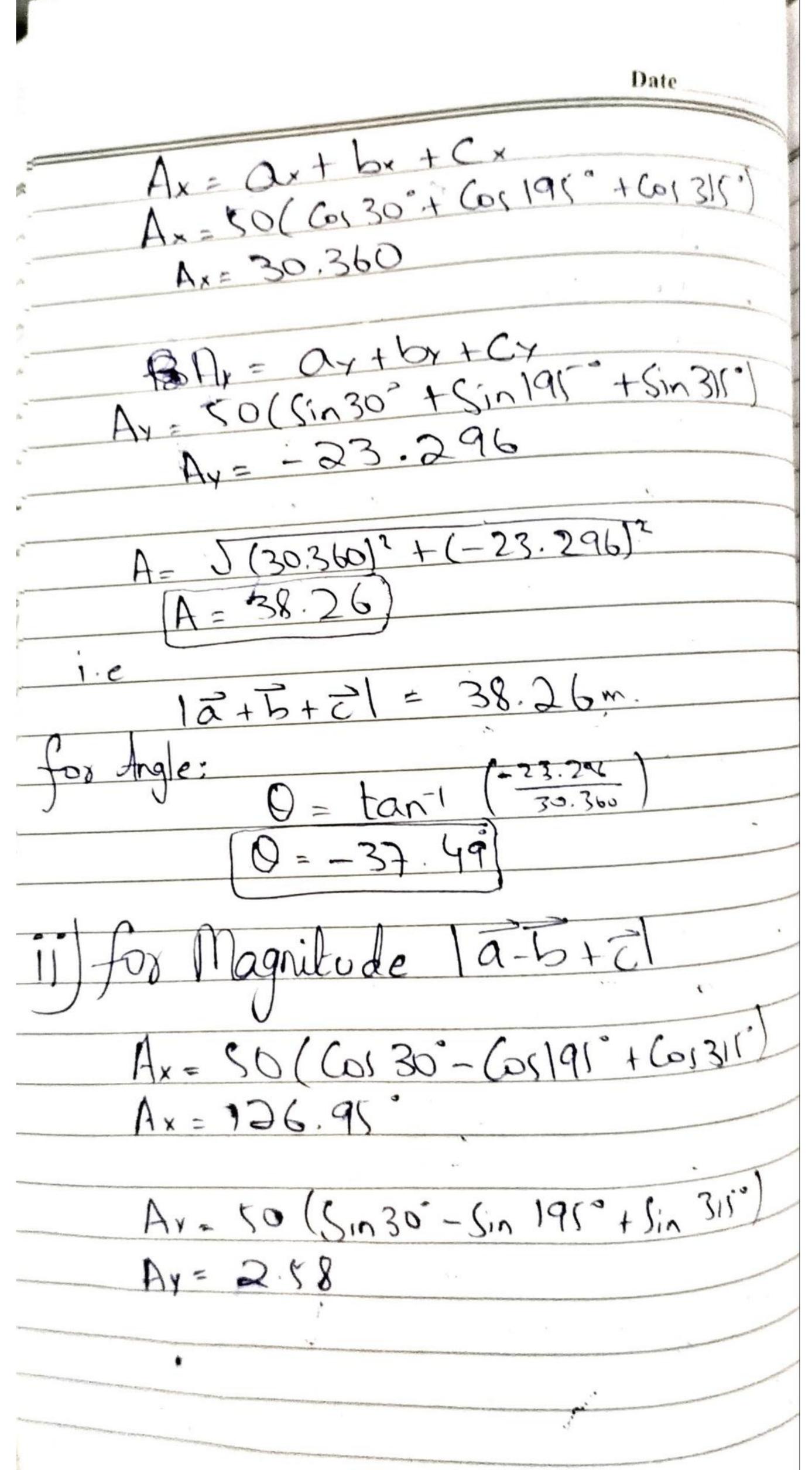
Date Direction will be in the z-axis.



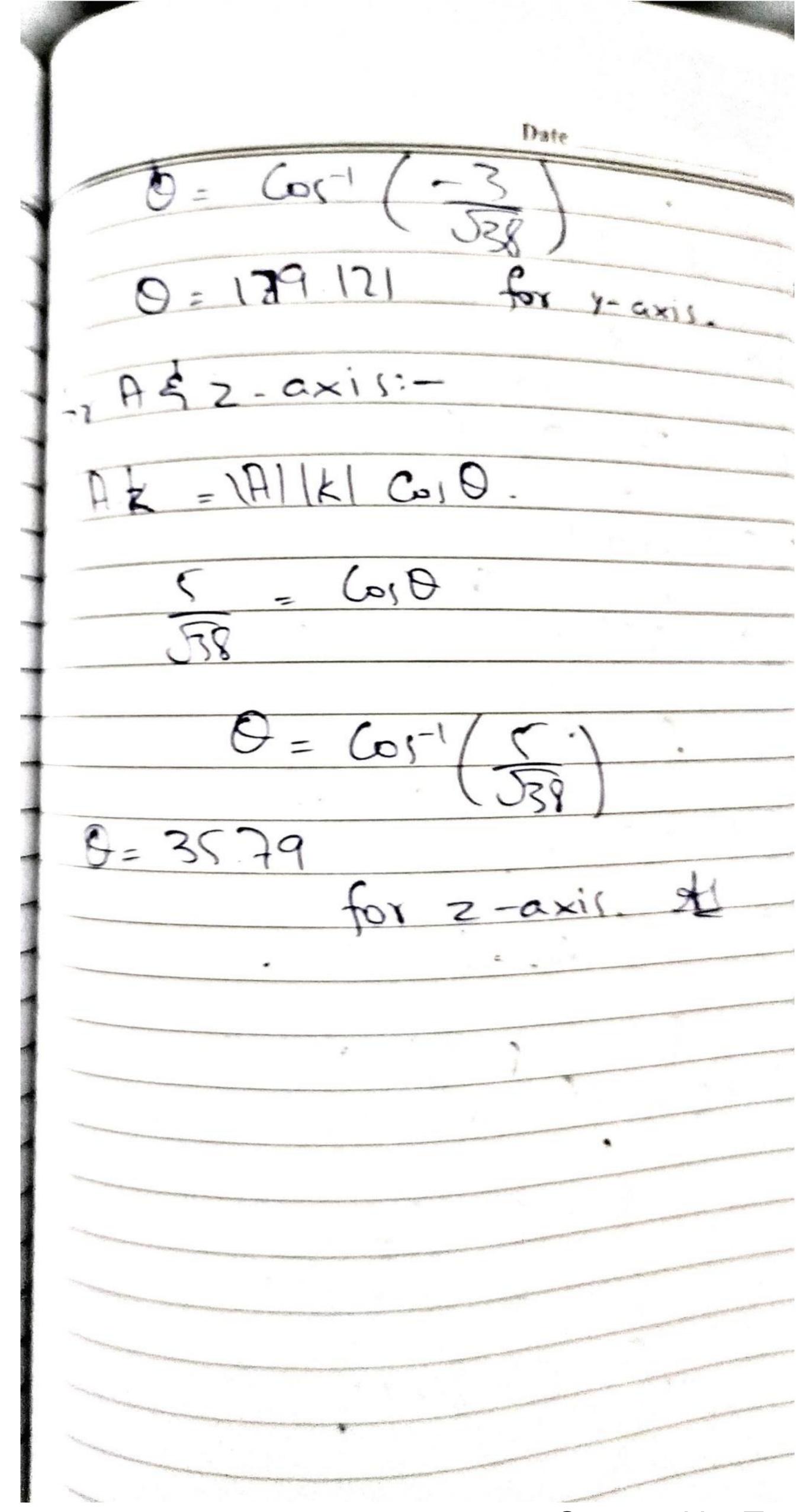
Date a.b = lal 16/000 7 200 × 10 × 001 = axb = ab Sin 0. = 10 × 10 × Sin 75° ax 5-96.5923 190-105°=75°
The angle is 75°



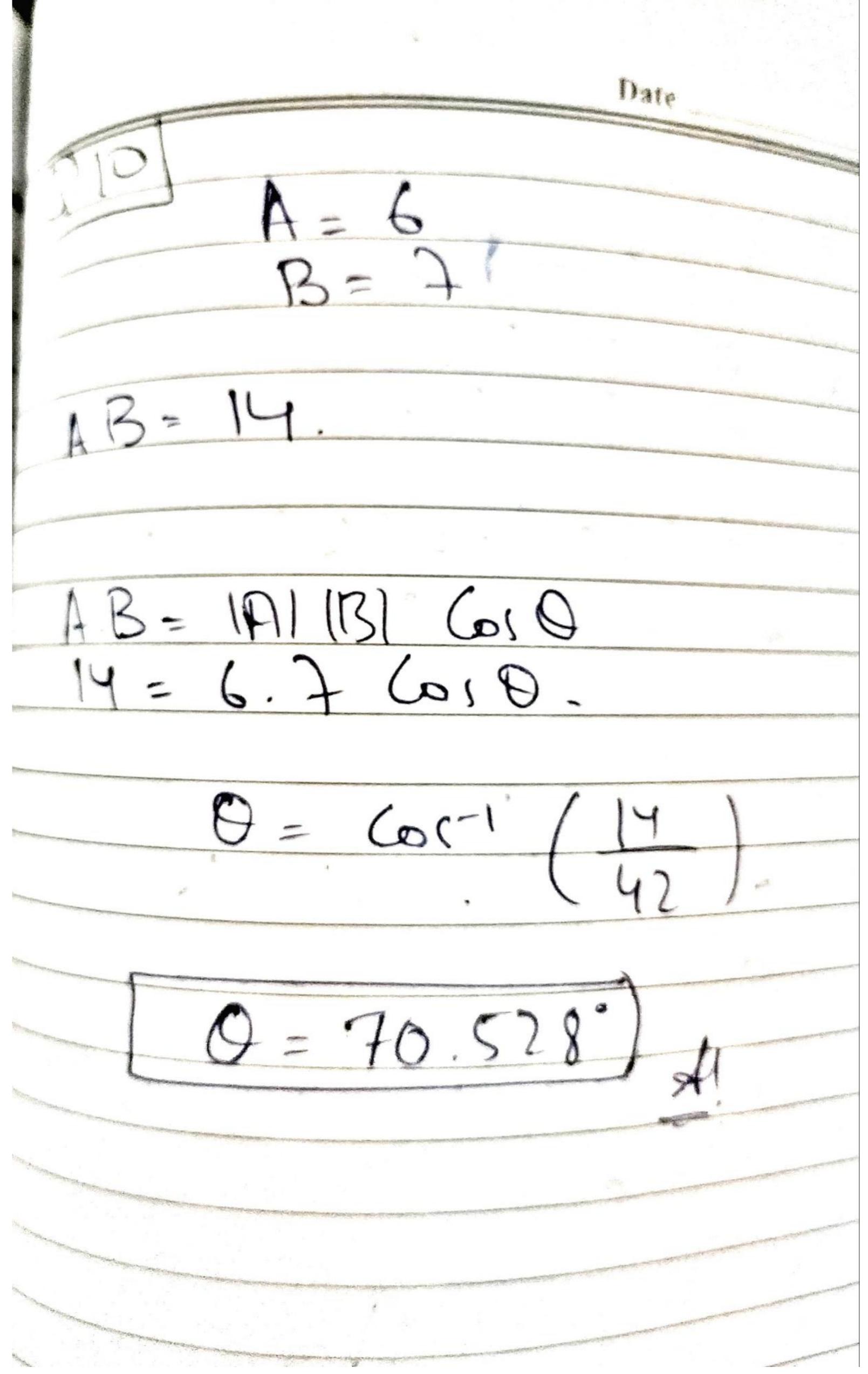




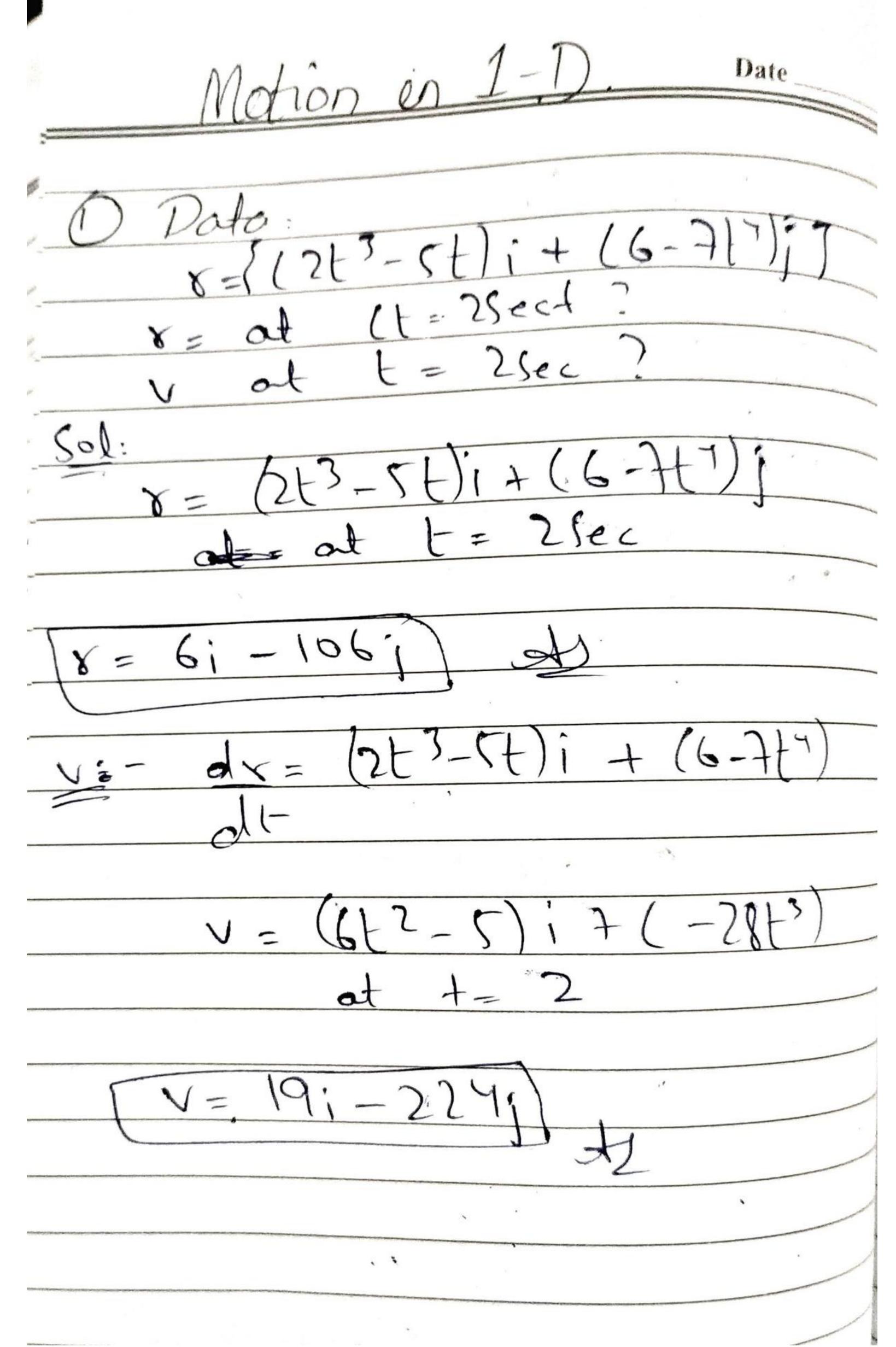
Date Magnetude: 1(-40.34)2+(47.40)2 for A & n-avis:-(21-3j+14) [i] = J419+27 Ji2 Cor0 = 531 x Co10 $\frac{1}{0} = \frac{1}{0} = \frac{2}{0}$ 0=71.068° for N-avis. for A & y-axis: -Aj= 1A1 ijl Cos0. -3 = 600

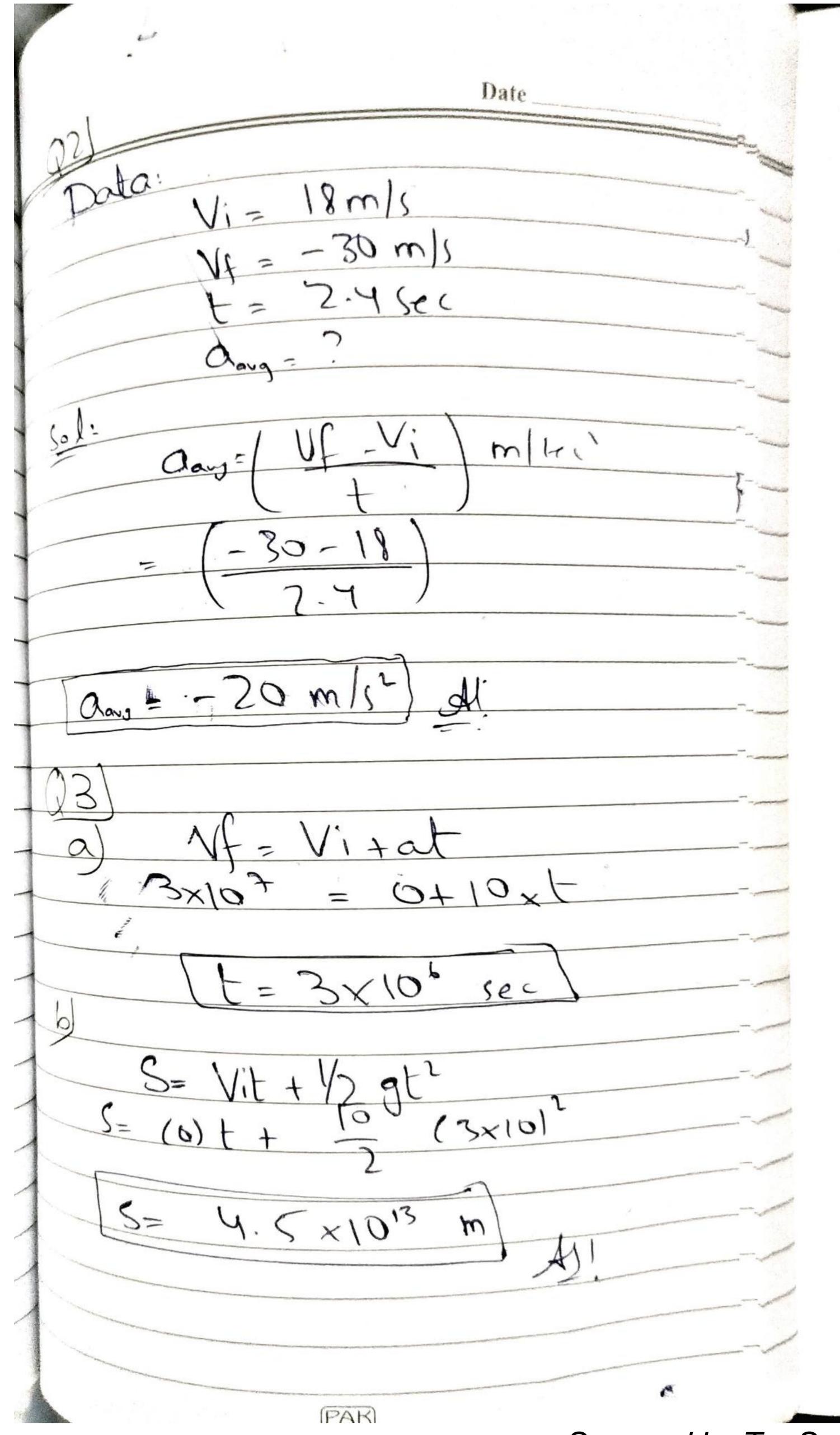


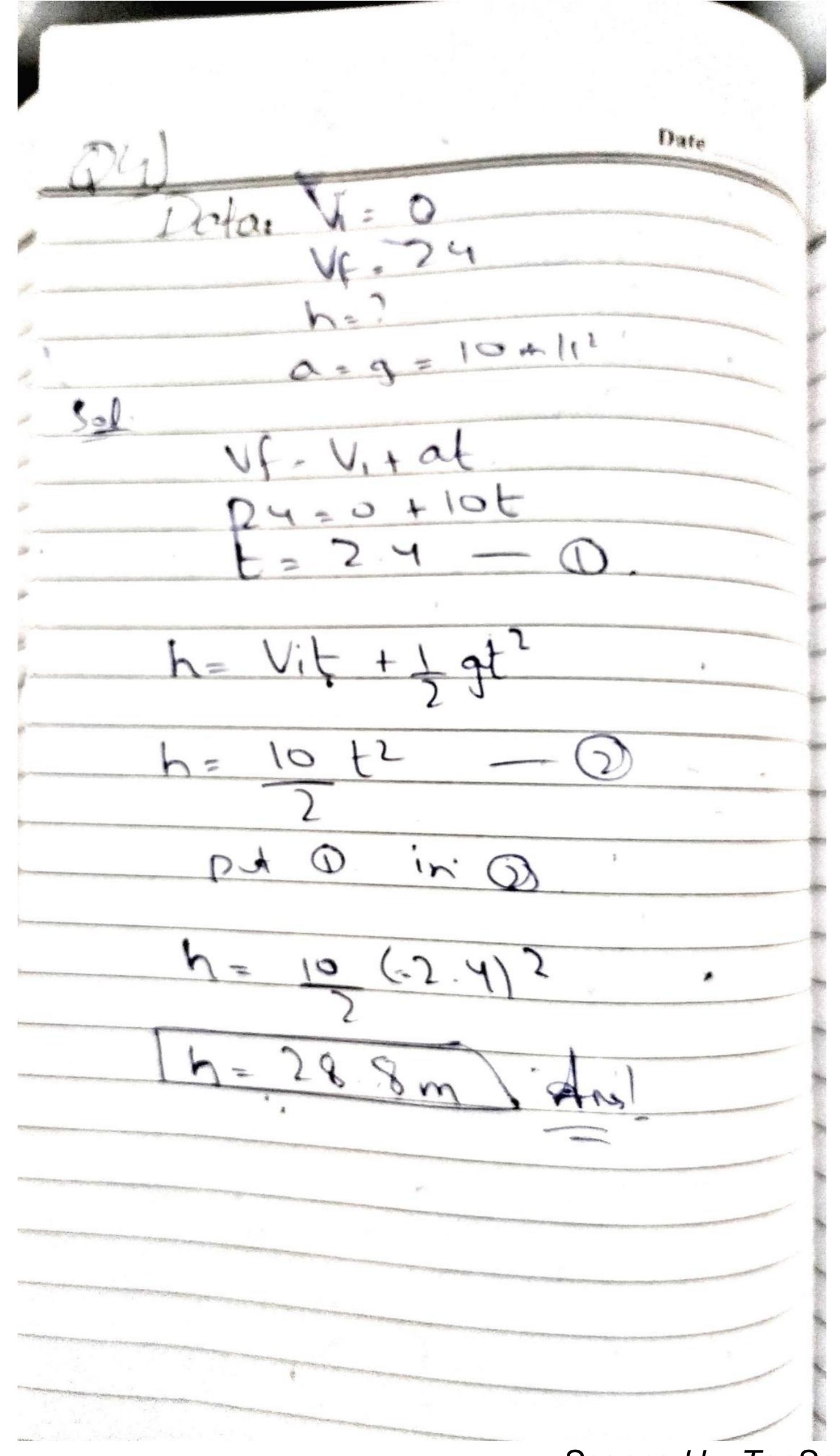
Date c=41+31+2k a= 51+41-6K b = -2i+2j+3/L a+b+c:-& = 7i+9j-12. 0 blu atb a.b = lal 101 Cos 0 1al = 8.774 a.b = -20D= Cos-1/-20) angle Law at 2-axis:-- (5; +4, -6K). (+2) = J2(+16.436 JK2 Coso 0 = Cos-1

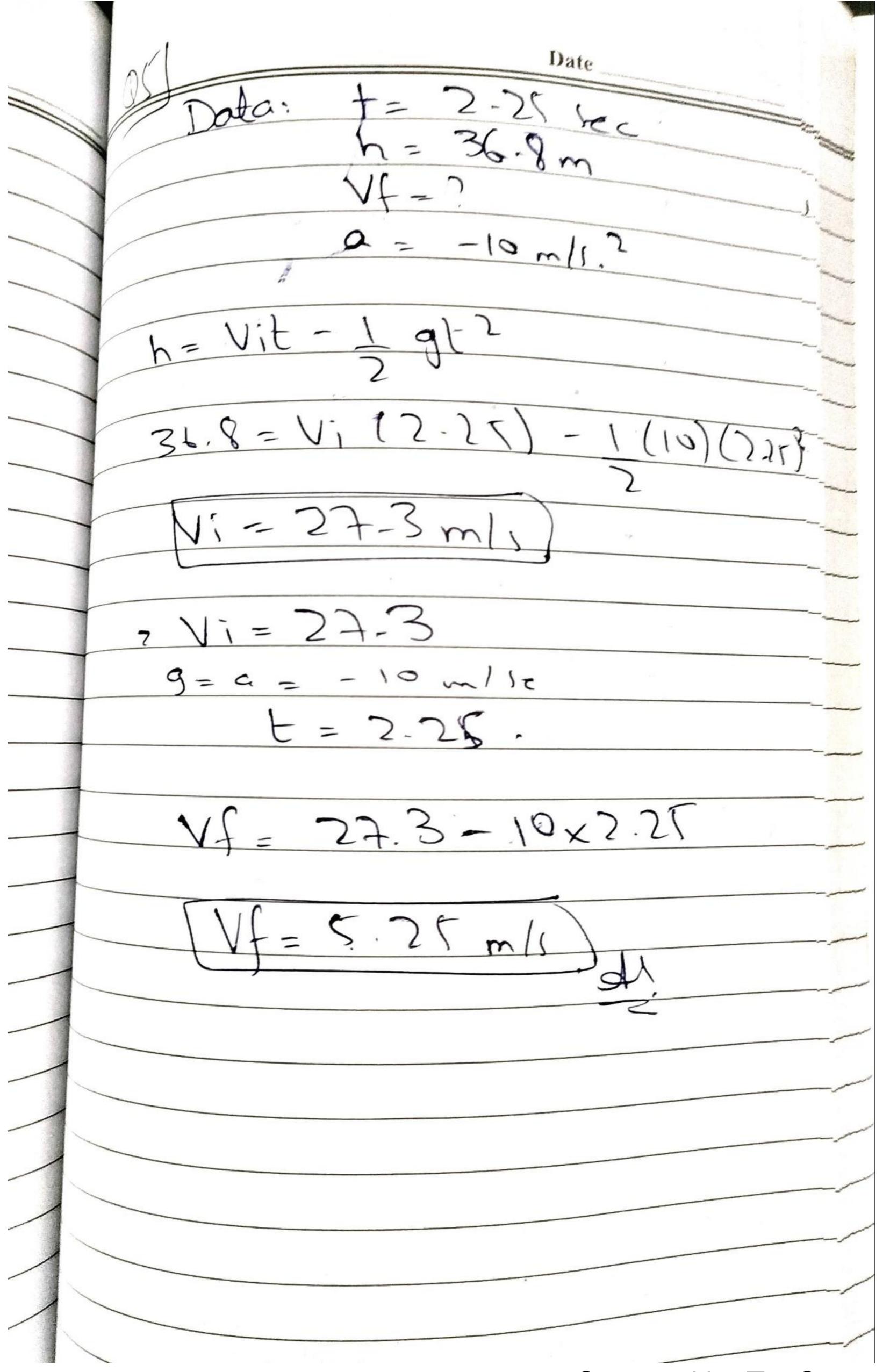


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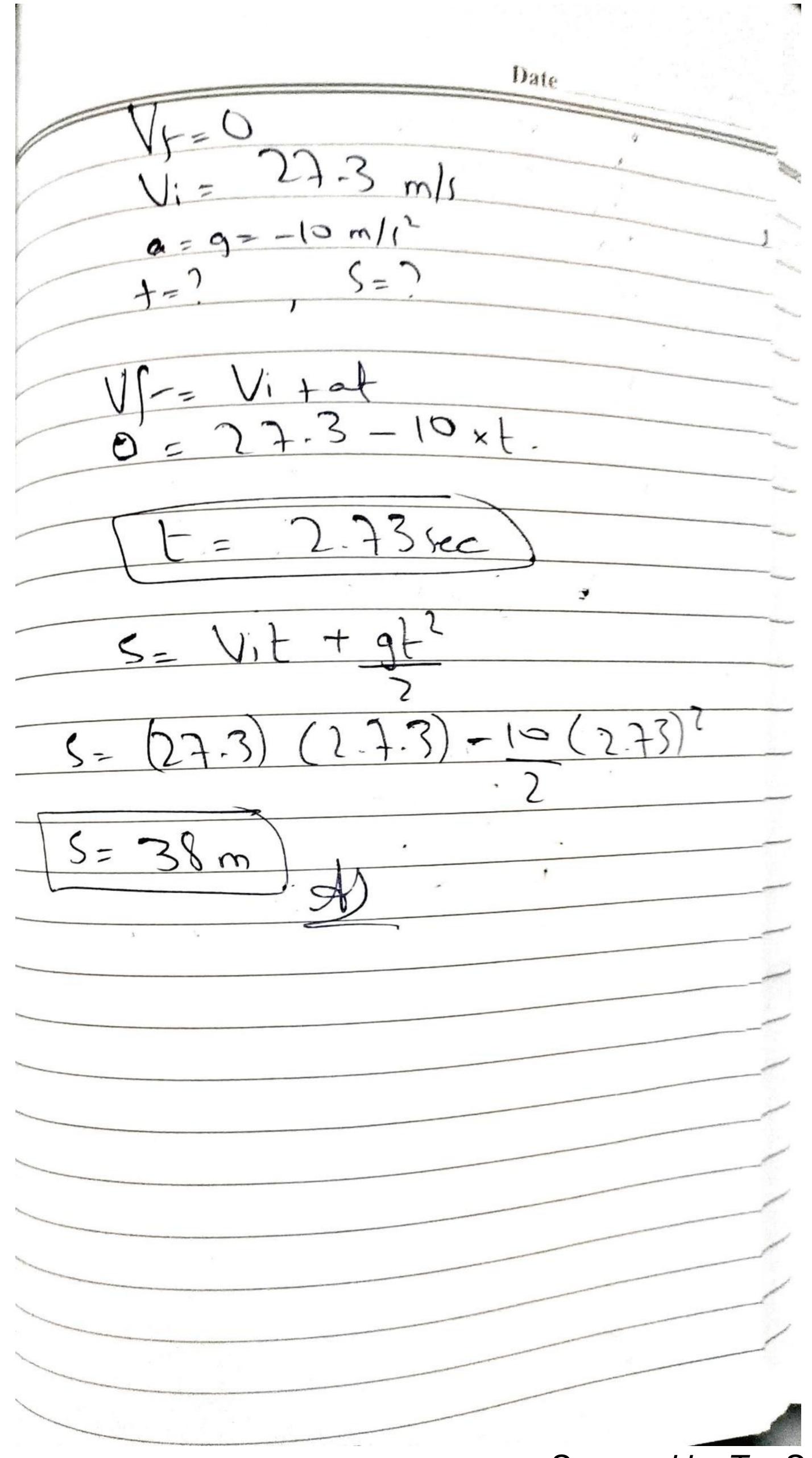




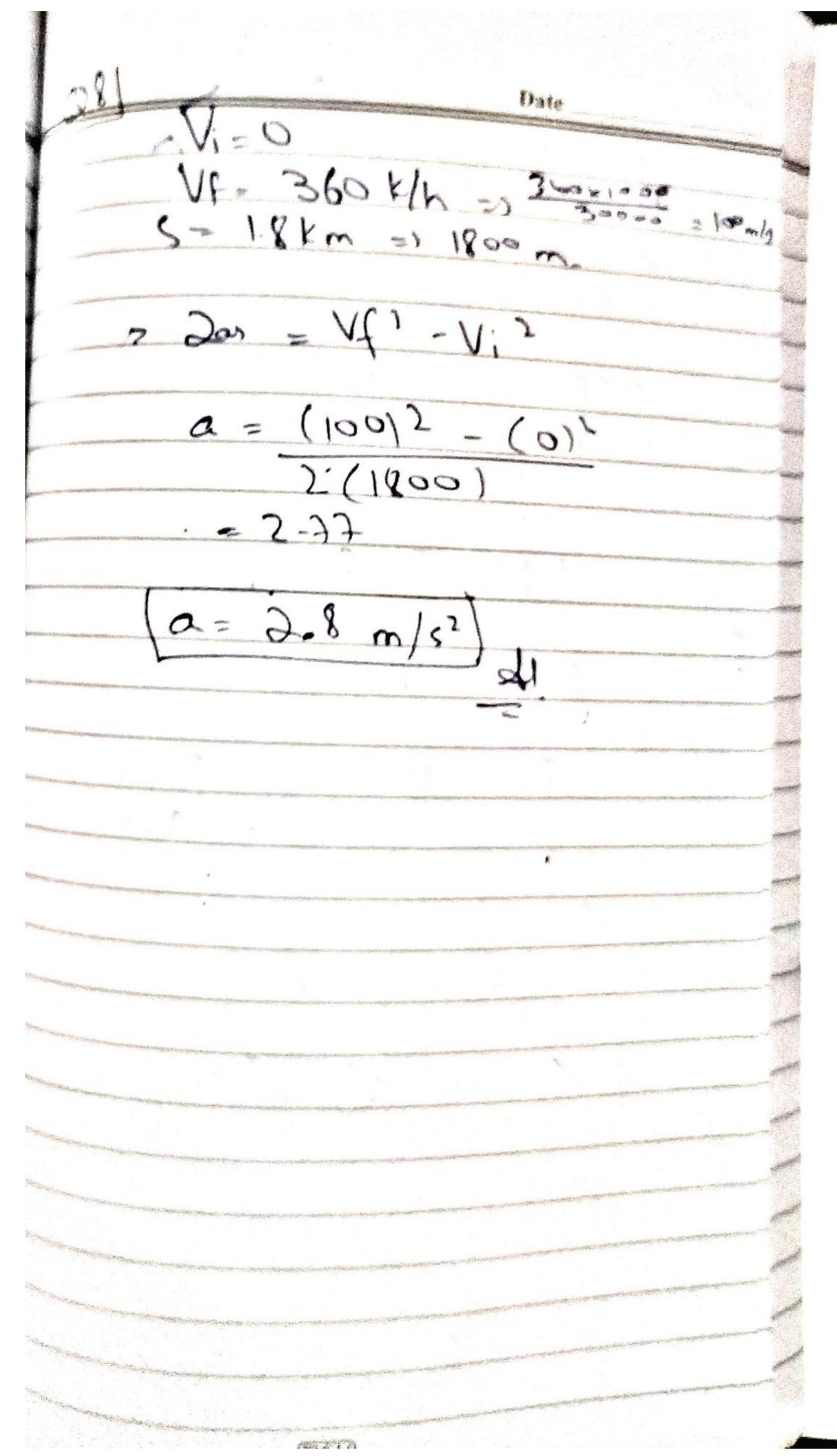




Date 60 k/h 40 k/h N.m. Any speed = Total distances total time



Date



Date

Date N = 20 + 10/5 - du/dt = a 0 = 20 m/s2 Voy = VIIVILV> = 90+40+60