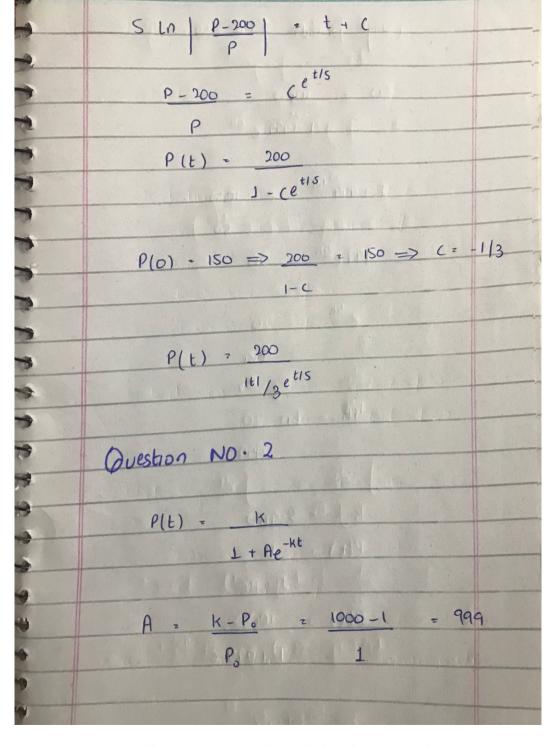
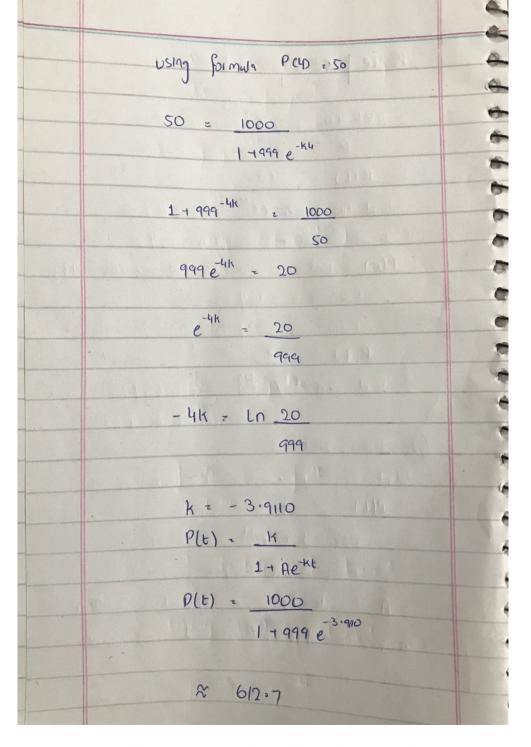


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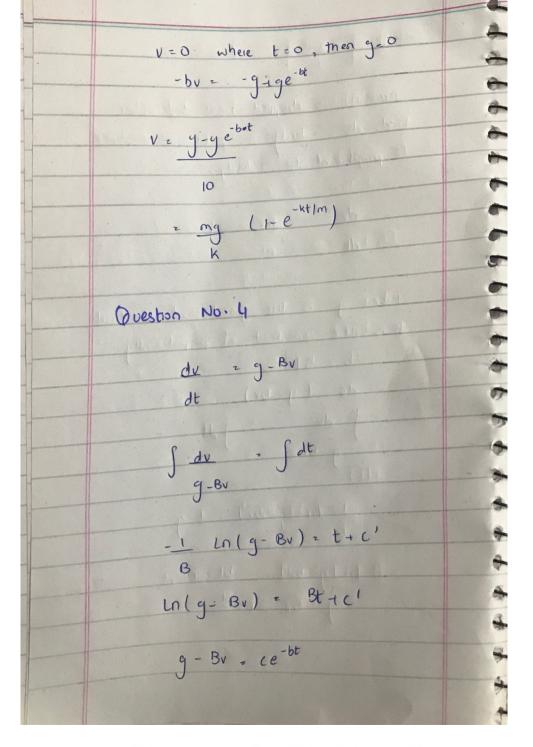
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37	
-	Question No. 3
7	mass m is diopped from halicopter
9	Finds its velocity as f(t) air resistance is proptronal to velocity.
7	dv z hv z y
7	dt m
7	where y is the gravitational constant K is the constant of proportionally
	b = K/m dv = (y-bv)
•	S du F S dt
•	- 1 ln 1g-bvl = t-1g
9	1019-bul = - bt - bc,
9	g-bv=(e-bt

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V(0) = V, => 9-BV, = C Eq for Skydrivers speed at t Seconds after parachuts open y-Bv = (y-Bv) eBt Buzy-(y-Bv)e-8t V= yls | 1-(1-BV,)e-Bt | Ve my | 1+ (kv-1) ekt As time passes, as I inclease, the team ethin) goes zero, so, the paracoutts speed v slow the group 1k which is termined speed with pare huts open.

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