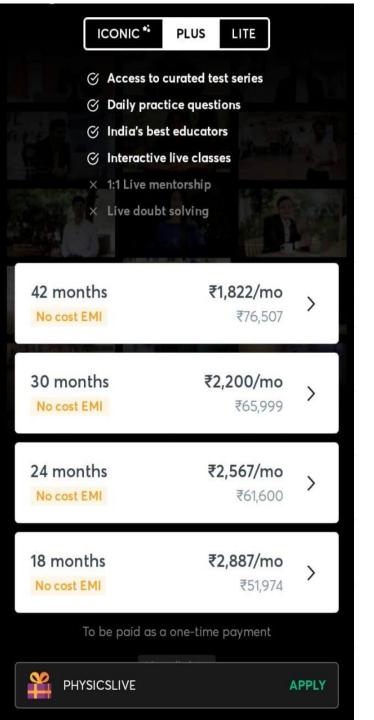




DPP – 2 (Unit & Dimension)

Video Solution on Website:-	https://physicsaholics.com/home/courseDetails/49					
Video Solution on YouTube:-	https://youtu.be/fe1L15gCivs					
Written Solution on Website:-	https://physicsaholics.com/note/notesDetalis/69					
Q 1. In $S = a + bt + ct^{2}$ (a) ms^{-2} (c) ms^{-1}	² , S is measured in meters and t in seconds. The unit of c is: (b) m (d) None					
$x = Ay + B \tan(C)$ not have the same dim (a) x and B (c) y and B/A	(b) C and z^{-1} (d) x and A					
and θ is the temperat						
Q 4. The radius of nucleus (a) $[M L T^{-2}]$ (c) $[M^0 L T^0]$	s is $r = r_0 A^{1/3}$, where A is mass number. The dimensions of r_0 is: (b) $[M^0 L^0 T^{-1}]$ (d) none of these					
Q 5. A and B have different meaningful? (a) $\left[\frac{A}{B}\right]$ (c) $[A + B]$	rent dimensions. Then which of the following relation will be (b) $[A - B]$ (d) $\left[e^{\frac{A}{B}}\right]$					
Q 6. If $v = \frac{A}{t} + Bt^2 + ct^3$ dimensional formula (a) $[M^0 LT^0]$ (c) $[M^0 L^0 T^0]$	³ where v is velocity, t is time A, B and C are constant then the of B is: (b) $\begin{bmatrix} ML^0 T^0 \end{bmatrix}$ (d) $\begin{bmatrix} M^0 LT^{-3} \end{bmatrix}$					
capacitance and mag	ensions of <i>Y</i> in (MKSA) system, if <i>X</i> and <i>Z</i> are the dimensions of netic field respectively: itance of a capacitor is $coulamb^2/J$ and unit of magnetic field = (b) $[ML^{-2}]$					

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	(c) $[M^{-3}L^{-2}T^4A^4]$		(d) $[M^{-3}]$	$^{3}L^{-2}T^{8}A^{4}$	^ŀ]		
Q 8.	The dimensions of $\frac{2}{3}$ is time are: (a) M ² LT ⁻³	$\frac{a}{b}$ in the equation (b) MT ⁻²		² where I		sure, x is distance and t (d) LT ⁻³	
Q 9.	The division of ener [Hint:- Momentum = perpendicular distan (a) Momentum (c) Torque	= mass × velocity ce] (b) Po	y, Power	= force ×		of X is same as that of y, Torque = Force ×	
Q 10. Write the dimensions of a × b in the relation $E = \frac{b-x^2}{at}$. Where E is the energy, x is the displacement and t is time (a) ML^2T (b) $M^{-1}L^2T^1$ (c) ML^2T^{-2} (d) MLT^{-2}							
Q.1	la Q.2	d Q.3	a	Q.4	C	Q.5 a	
Q.6	6 d Q.7	d Q.8	b	Q.9	b	Q.10 b	



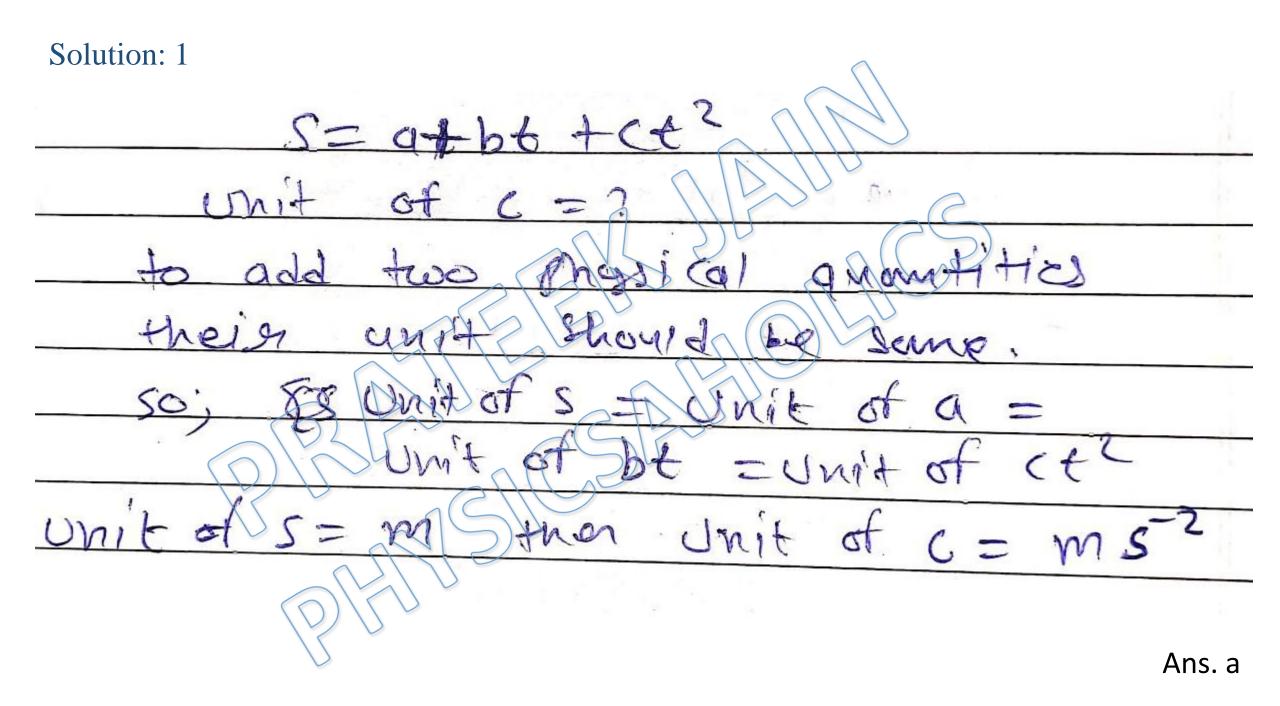
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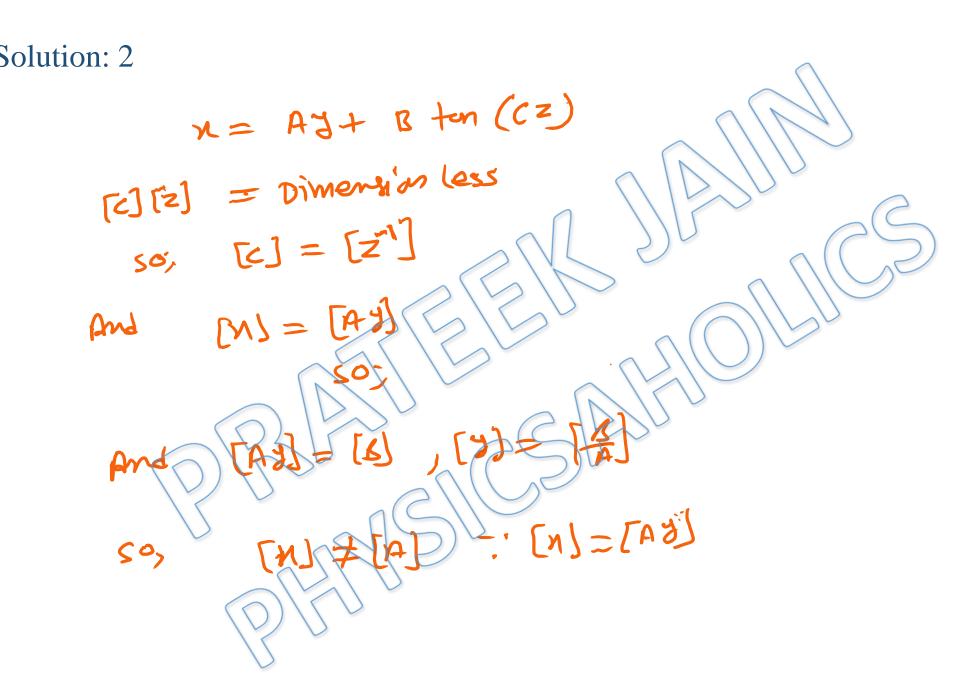
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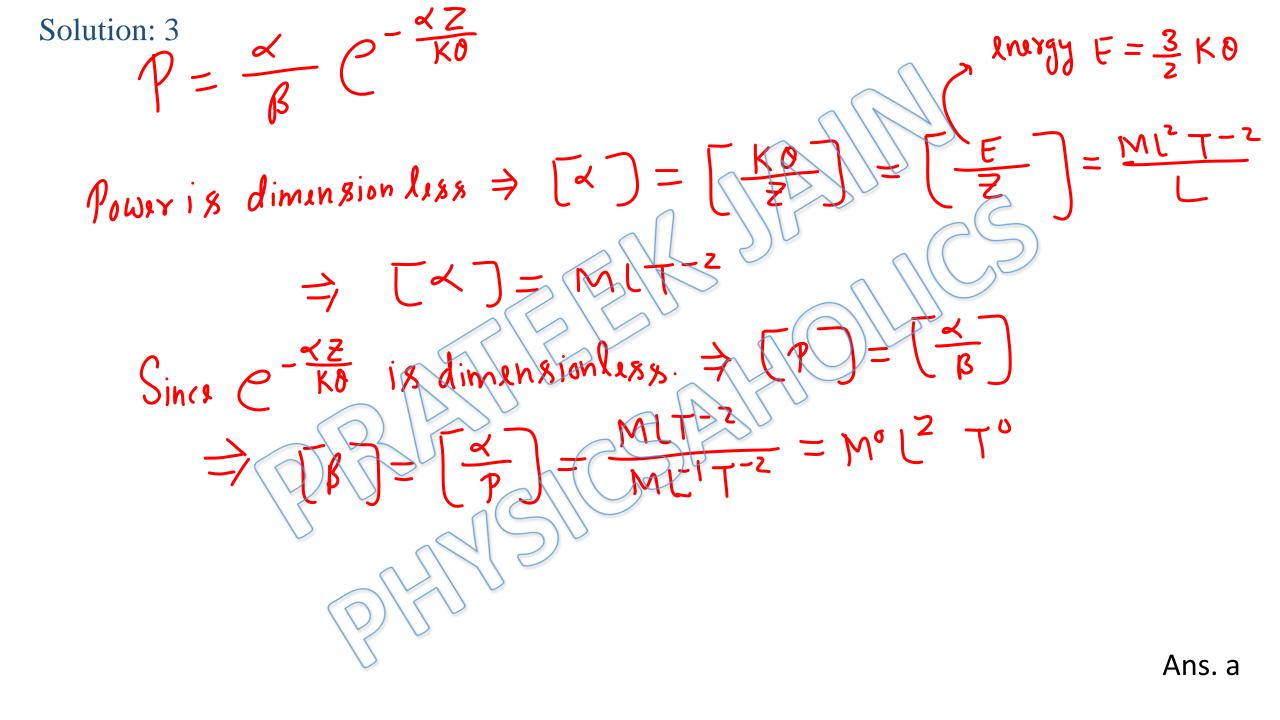
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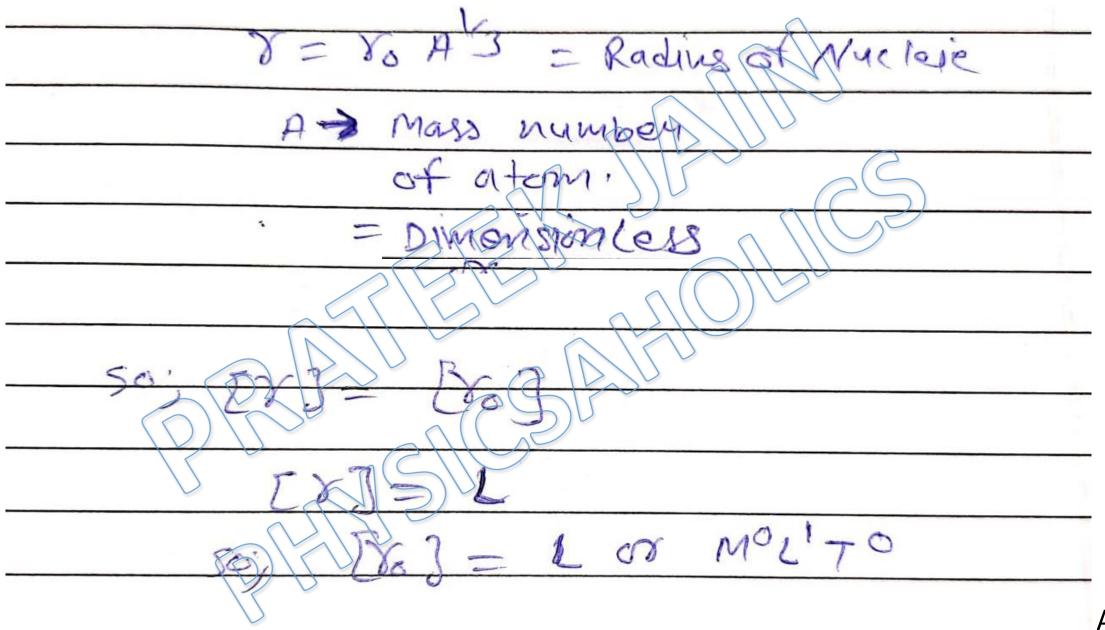
Written Solution

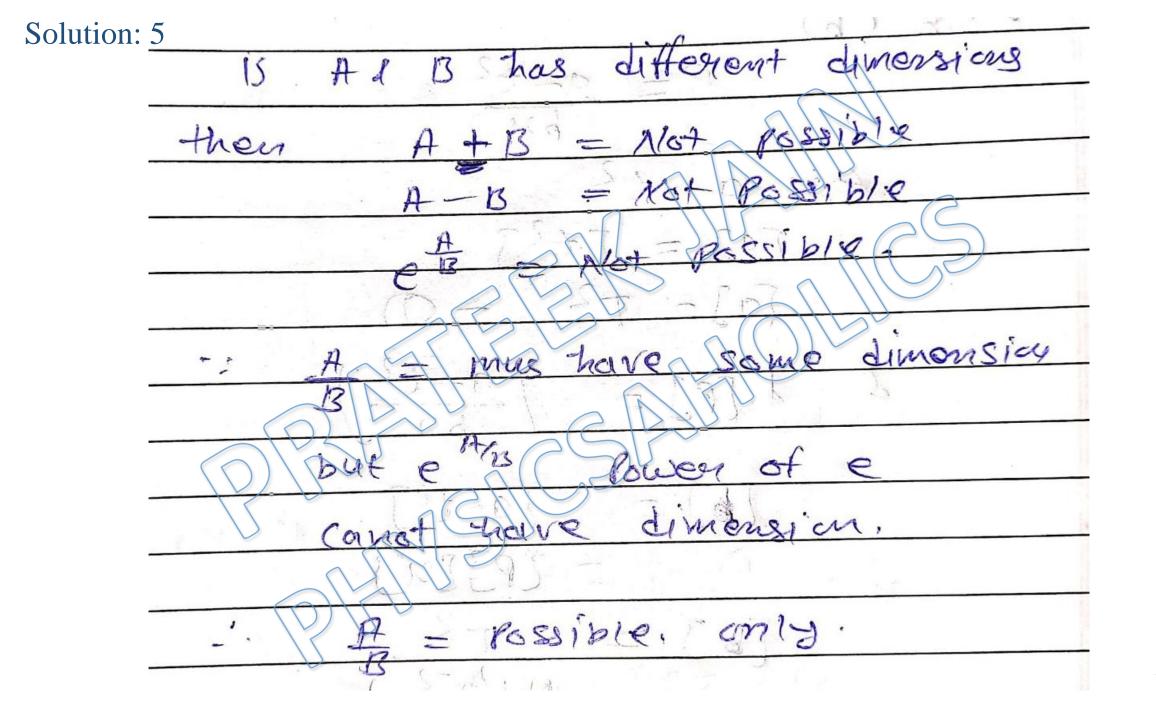
DPP-2 Principle of Homogeneity By Physicsaholics Team



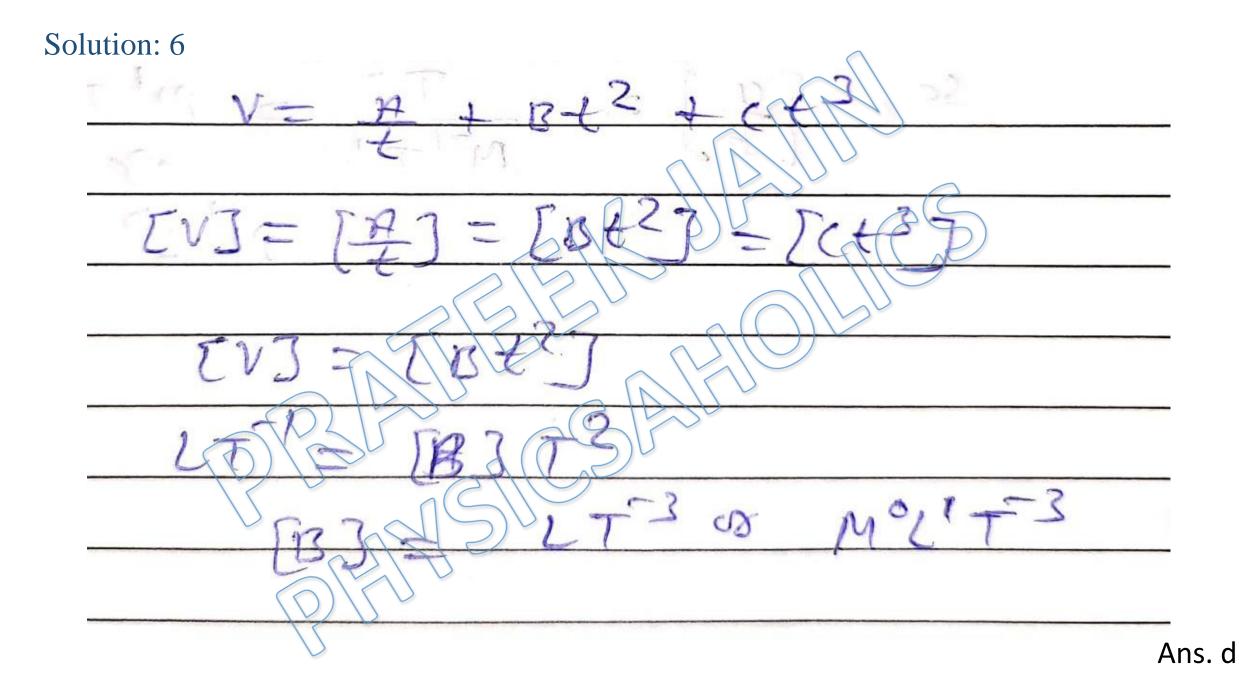


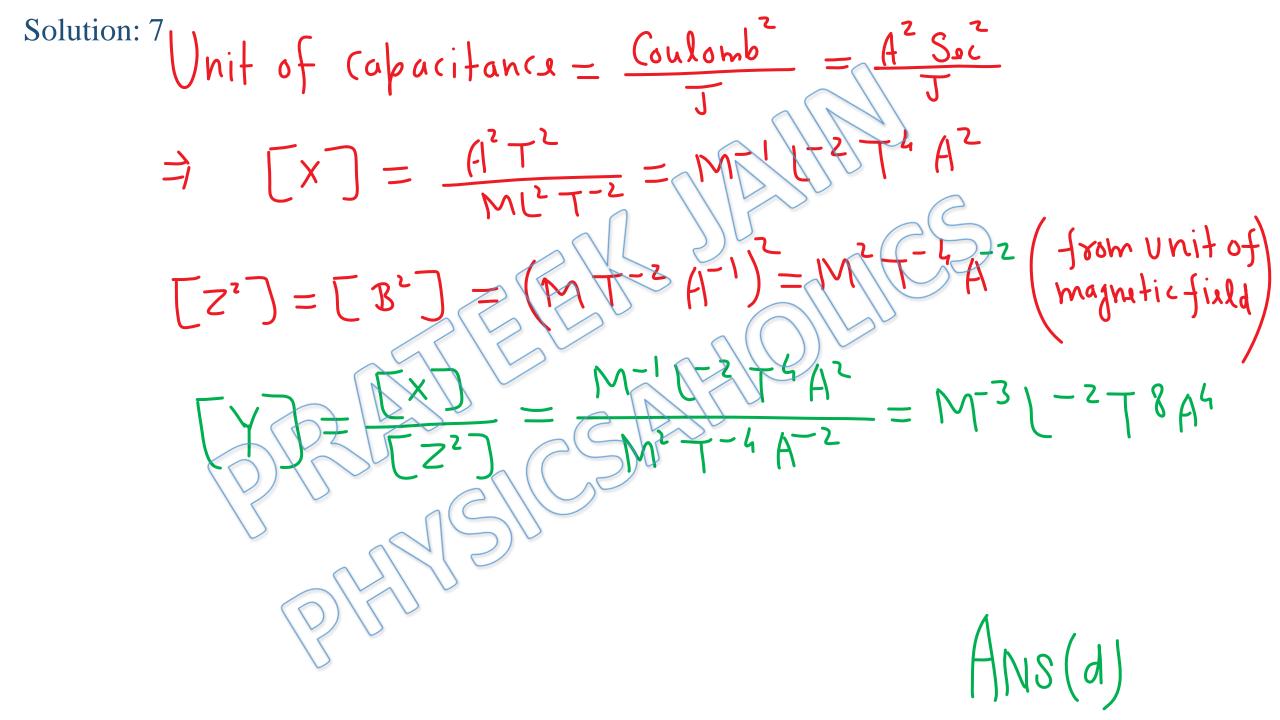


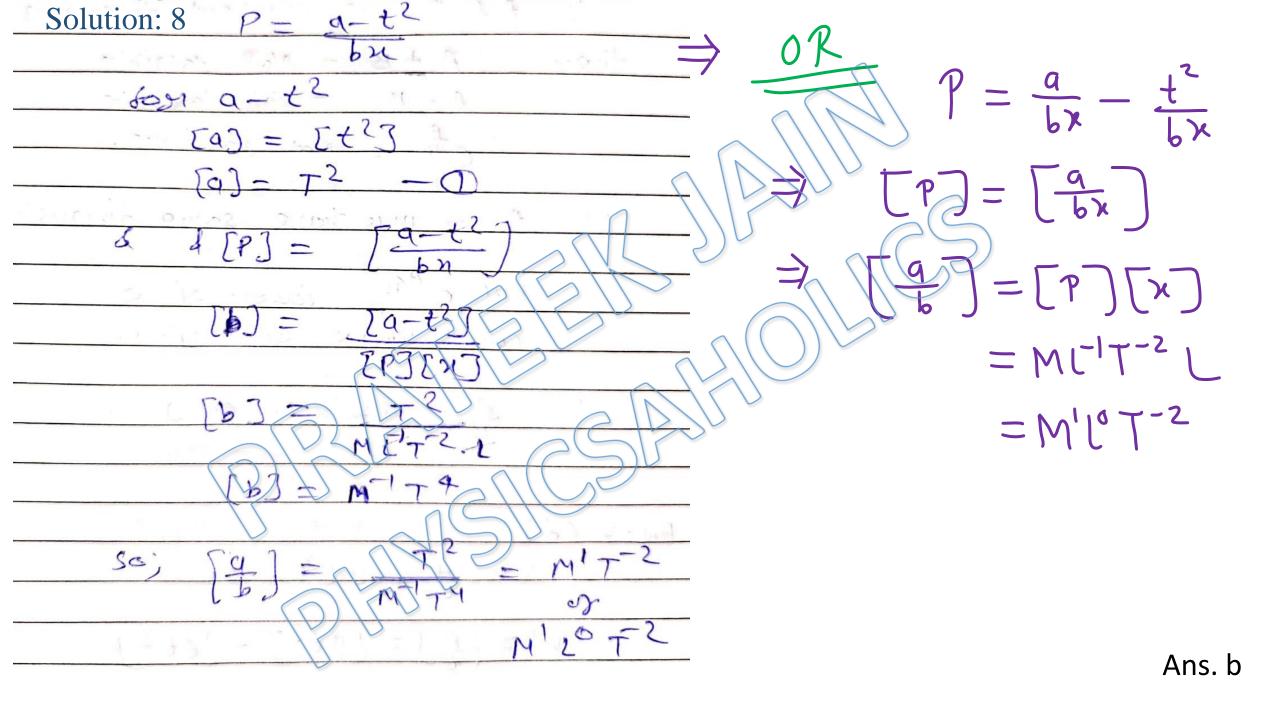


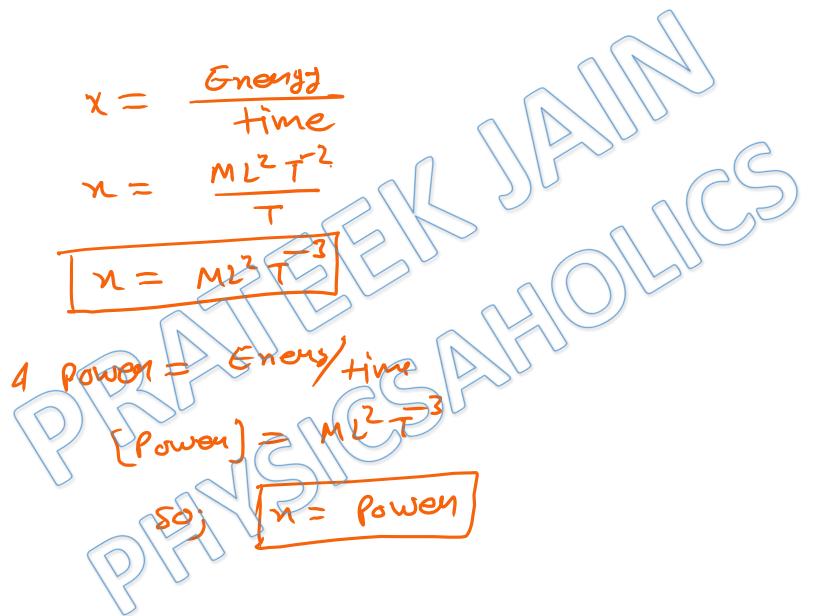


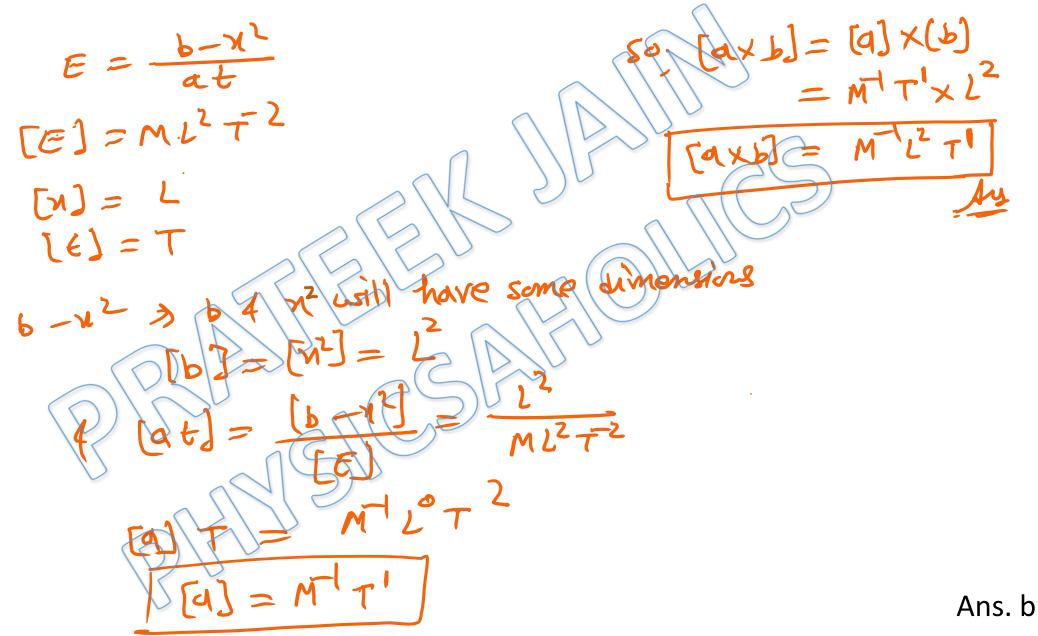
Ans. a











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