







<°EEð C°EE Ed°mÉ 1/2

(3) VEEIE aEE EMÇEð =xÉ °Enð°EEaEd) °EA°EE VEEa°xEEIEEð 1/2nÉa1/2 ;ÉD + ;ÉD IEÉð ©MME°Eð + °°E°  
°Ea EESEIE 1/2

(4) C°EE +ÉEE °E EZIEEa1/2EÉð °E EEE Eð +x°E EMÇEEd iEEEXE °Ea+ÉEEEd VEEIE aEE EMÇE°EEhEÉð  
°üEE °Ea(EUðð 1/2 °EEnu1/2iEEa<°EEð C°EE Ed°mÉ 1/2

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6. ¶EE°EEðPE °EaEE °EaEXE°EEEXE :-

(1) EXE xE °EaEE+Éa °EaVEEIE / EMÇEð °Enð°EEaEd) +x°EEEXEIE °EA°EE -

(+) +ÉE.B.B°E. / +É<ÇEÜ.B°E./ B °E°EEEdE (Énu -----

(E) Eb-]ð EoEEÇ]©üiEIE +x°E °E EXE (Énu -----

(°E) bÉC]© <MEEXE°EüB °E°E EXE ,ÉhÉD Eð +x°E (Énu -----

(n) iE/PEÜEnüüiEIE ©MEEEjEIE ,ÉhÉD Eð +x°E (Énu -----

(2) ¶EE°EEðPE °EaEE+Éa °EaVEEIE+EM Ed°mÉ 1/2 C°EE =x1/2Eo;ÉD +{ÉXÉD VEEIE aEE EMÇEð Ed°mÉ  
=(ÉiEIE 1/2ME (EbÉ 1/2 °EEnu1/2iEEaPE]ME EdÉ E°E°mÉ nã

(3) C°EE +ÉEEð E°SE°E°°Ea+ÉEEEd VEEIE aEE EMÇEð ¶EE°EEðPE °EaEE+Éa °Ea|EEIEEXEÉVIE E °EhÉEXEÉXÉð 1/2  
°EEnuXÉ/2 iEEa<°EEð C°EE Ed°mÉ 1/2

(4) C°EE +ÉEEð E°SE°E°°Ea+ÉEEEd VEEIE aEE EMÇEð ¶EE°EEðPE °EaEE+Éa °Ea|EEIEEXEÉVIE E¶EE°EEðPE  
°EaEE+Éa °Ea+ÉEEEd VEEIE aEE EMÇEða(E°EEÇIE |EEIEEXEÉVIE E |EE(IÉ EoMEaEð E+°EaC°EE °EÜEE E 1/2

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7. VEXE|EEIEEXEÉVIE E :-

(1) E°E°EE +{ÉXÉD VEEIE aEE EMÇEð =xÉ °EEnð°EEaEd) °EA°EE EIEE°EaVEEIEEð EXE xE (ÉnÜE°EüEXE EESEIE  
aEE SE°EEEXEIE 1/2E°ü+ÉEa1/2

- (+) °EMÉ°Ehb±E Eð °Enð°E
- (E) ±EE°E°E;EE/©ü°E°E;EE °Enð°E
- (°E) E°EEXE°E;EE / °Enð°E
- (n) {EE°Eü

(a)  $\dot{V} = \dot{V} + v \dot{E}$

(2)  $C \dot{E} + \dot{E} E \dot{E} = \dot{E} E \dot{E} + \dot{E} E \dot{E}$  (Euler's theorem for homogeneous functions)

(3)  $\dot{V} = \dot{V} + v \dot{E} + \dot{E} E \dot{E}$

8.  $\dot{E} = \dot{E} + v \dot{E}$  :-

(a)  $\dot{E} = \dot{E} + v \dot{E} + \dot{E} E \dot{E} + x \dot{E} \dot{E} = \dot{E} + v \dot{E} + \dot{E} E \dot{E} + x \dot{E} \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$   
 $\dot{E} = \dot{E} + v \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$

$\dot{E} = \dot{E} + v \dot{E} + \dot{E} E \dot{E} + x \dot{E} \dot{E}$

(1)  $\dot{E} = \dot{E} + v \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$

(2)  $\dot{E} = \dot{E} + v \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$

(a)  $\dot{E} = \dot{E} + v \dot{E} + \dot{E} E \dot{E} + x \dot{E} \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$

$\dot{E} = \dot{E} + v \dot{E}$