$$\frac{12}{2} | M_1 \ddot{X}_1 = M_1 g - T_1 - T_2 - T_1 - G 
\frac{1}{2} | M_1 \ddot{X}_1 = M_1 g - T_1 - T_2 - K_1 T_1 - G 
\frac{1}{2} | M_2 K_2 \cdot \ddot{G}_1 = K_2 T_2 - K_2 T_3 - G 
M_3 \ddot{X}_3 = M_3 g - T_3 - G$$

(13) 
$$\chi_1 = -\frac{1}{2}\chi_3$$

$$\theta_1 = \frac{1}{2h_1}\chi_3$$

$$\theta_2 = -\frac{1}{h_2}\chi_3$$

$$-X_1 = h_1\theta_1$$

$$\theta_1 = -\frac{X_1}{H} = \frac{1}{2h_1}X_3$$

$$X_3 = -h_2\theta_2$$

$$\theta_2 = -\frac{X_3}{h_2}$$

3M1 x3 = 3M1g - T3

$$|A| = \begin{vmatrix} -\frac{1}{2}M_{1} & 1 & 1 \\ \frac{1}{4}M_{1} & 1 & -1 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 2 & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 2 & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 & -1 \end{vmatrix} = \begin{vmatrix} -\frac{1}{4}M_{1} & 0 \\ -\frac{1}{4}M_{1} & 0 &$$

$$|(5)|_{1(|b|| \Phi_{12} | \Phi_{33} | \Phi_{4})| = |0|_{0} |-1|_{0} |M_{1} Q = |0|_{0} |M$$

$$\dot{x}_{3} = \frac{576.9}{7.35} = \frac{4}{7}.9$$

$$x_3 = \frac{1}{2} x_3^2 t^2 = \frac{2}{7} a t^2$$

(1) ピストン壁面への衝突し日またりの力程は m Vix - (-mVox) = 2mVox 更任時面をたり、街桌回報は - Nm(v2) = 3 polo おりまなは時間あなりのかだは 2m Vox - Vox = m Vox 壁面にかけずかけかなり等にい、また、じな人」の面積はしでなるか Po = N. m(22)0. 1= = 1 Nm(02)0 (3) EB = R KONA = R MRTO = + Nm (0°)0 : To = & M & m(2) = \$ NA m (12) = m(2) = m(2) l=2loaEta湿度TはTV=-定まり T' (2lo) = To (lo) = nPTo= Polo : T= - 1 = 2-3 To : OU = 3 NR (T'-To) = 3 NR (2-5-1) To = 3 (2-3-1) Polo lo→2 lon操作は断型式UなNO、AUは気体に加して付きになる、 去,7,(4)~状态《星部工术以中一《旅剧工》= lo x E # 星部工术以中、《影和 DU a FOR TOS. 5.7, INM(03) = INM(03)0 + DU = INM(03)0 + B (2-3-1)- & NA(03)0 = 2 -3 Nm ( v2), はくじう=2·2-うくびつ。=2らくびつ。=3√2くびつ。