4%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}

\begin{document}
 \[
 r_{i}=k \cdot {t_{i} }      \tag{1.2}
% 
 \]
\end{document}？

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 r_{1} = 5t_{1}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P_{1} ={w} \cdot {5} r_{1}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 r_{2} = 5t_{2}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P_{2} ={w} \cdot {5} r_{2}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 r_{3} = 5t_{3}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P_{3} ={w} \cdot {5} r_{3}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 r_{4} = 5t_{4}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 r_{5} = 5(60-t_{1}-t_{2}-t_{3}-t_{4})
 % 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 r_{4} = 5(105-t_{1}-t_{2}-t_{3})
 % 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \left(18 \leqslant 105-t_{1}-t_{2}-t_{3} \leqslant 30\right)
 % 
 \]
\end{document}

%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \max P = w \cdot {\sum_{i=1}^a} r_{i}-aM \tag{3.1}
 % 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
\[
\begin{cases}r_{i}=k \cdot t_{i}+50&(i=1) \\ r_{i}=k \cdot t_{i}+100&(i>1)\end{cases}\tag{3.2}
%
\]
\end{document}%FontSize=11
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%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \min \alpha \cdot{ \mathbf{t}_{\max } \leq \mathbf{t}_{i} \leq \mathbf{t}_{\max }} \tag{3.3}
% 
 \]
\end{document}%FontSize=11
%TeXFontSize=11
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%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \min \alpha \cdot{ \mathbf{r}_{\max } \leq \mathbf{r}_{i} \leq \mathbf{r}_{\max }} \tag{3.4}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P_{4} ={w} \cdot {5} r_{4}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\pagestyle{empty}
\begin{document}
\[
P_{5}=w \cdot 5 r_{5}
%
\]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P =wr - 4M = 42000-4M
% 
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 Q_{1} = w \cdot r -5 M
% 
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 Q_{2} = w \cdot r - 9M
% 
 \]
\end{document}

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%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 Q_{3} = w \cdot r - 8M
% 
 \]
\end{document}

%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
\[
Q_{x}=w \cdot r - 9M
\]
\end{document}

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%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
\[
Q_{x}=w \cdot r - 8M
\]
\end{document}

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%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}{w \cdot 525-4M>w \cdot 975-7M} \\ {w \cdot 525-4M>w \cdot 1200-8 M}\end{cases}
% 
 \]
\end{document}

W

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\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}w \cdot 975-7 M>w \cdot 525- 4M \\ w \cdot 975-7 M>w \cdot 1200-8 M\end{cases}
% 
 \]
\end{document}

%FontSize=11
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%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}w \cdot 1200-8 M>w \cdot 525- 4M \\ w\cdot 1200-8 M>w \cdot 975-7 M\end{cases}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
\begin{table}

% For LaTeX tables use

\begin{tabular}{lll}

\hline\noalign{\smallskip}

first & second & third  \\

\noalign{\smallskip}\hline\noalign{\smallskip}

number & number & number \\

number & number & number \\

\noalign{\smallskip}\hline

\end{tabular}

\end{table}
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\usepackage{booktabs}
\pagestyle{empty}
\begin{document}
\begin{table}[htbp] 

 \begin{tabular}{cc} 
  \toprule 
   ... & ... \\ 
  \midrule 
  ... & ...  \\ 
  ... & ...  \\ 
  ... & ...  \\ 
  \bottomrule 
 \end{tabular} 
\end{table}
\end{document}

![%FontSize=11
%TeXFontSize=11
\documentclass[12pt]{article}
\usepackage{CJK}
\pagestyle{empty}
\begin{document}
\begin{CJK*}{GBK}{song}
 中文排版
\end{CJK*}
\end{document}]()

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\pagestyle{empty}
\begin{document}
\[
Q_{2}^{'}=w \cdot r - 8 M
\]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}w \cdot 750-5M >w \cdot 1250 - 9M \\
 w \cdot 750-5M >w \cdot 1200 - 8M

 \end{cases}
% 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}
w \cdot 1250 - 9M > w \cdot 1200 - 8M \\
w \cdot 1250 - 9M > w \cdot 750-5M 
 \end{cases}
% 
 \]
\end{document}

w \cdot 1250 - 9M 
w \cdot 750-5M 
w \cdot 1200 - 8M


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}
w \cdot 1200 - 8M> w \cdot 1250 - 9M \\
w \cdot 1200 - 8M> w \cdot 750-5M 
 \end{cases}
% 
 \]
\end{document}

w \cdot 1250 - 9M 
w \cdot 750-5M 
w \cdot 1200 - 8M


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 q_{1} = 6 - \frac{e_{i} \cdot s_{i}} {m_{i}}
 \]
\end{document}


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 q_{2} = - [0.5(r_{a}+r_{b})-r_{z}] \cdot [0.5(r_{t}+r_{w})-r_{z}]
 \]
\end{document}


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \frac{dq_{3}}{dr} = c - q_{3}
 \]
\end{document}



%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 q_{3} = c - e^{-r}
 \]
\end{document}



%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 Q_{i} = k_{1} q_{1} \cdot k_{2} q_{2} \cdot k_{3}q_{3}
 \]
\end{document}


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 y = \beta_{0} + \beta_{1}x_{1} + \beta_{2}x_{2} + \beta_{3}x_{3} + \beta_{4}x_{4}
 \]
\end{document}


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 y = \beta_{0} + \beta_{1}x_{1} + \beta_{2}x_{2} + \beta_{3}x_{3} + \beta_{4}x_{3}^{2}
 \]
\end{document}


%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 y = 14352 + 0.000313x_{1} + 0.132x_{2} - 190.18x_{3} + 0.82x_{3}^{2}
 \]
\end{document}

%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \frac{dP}{d\rho} = \frac{E_n}{\rho_n}
 \]
\end{document}


%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \frac{d\rho_{B_{n}}}{dt} = \frac{Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}}}{V}
 \]
\end{document}


%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \frac{dP_{B_{n}}}{dt} = \frac{(Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}})\cdot E_{n}}{V\cdot\rho_{n}}
 \]
\end{document}


%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 Q_{A_{n}} = C \cdot A \cdot \sqrt{\frac{2\cdot(P_{A_{n}} - P_{B_{n}})}{\rho_{A_{n} }}}
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \rho_{n+1} = \rho_{n} + \Delta p \cdot \frac{\rho_{n}}{E_{n}} 
 \]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
  \rho_{B_{n+1}} =\rho_{n} + \frac{Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}}}{V}
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P_{B_{n+1}}= P_{B_{n}}+\frac{(Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}})\cdot E_{n}}{V\cdot\rho_{n}}\cdot \Delta t
 \]
\end{document}


%FontSize=11
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\documentclass{article}
\pagestyle{empty}
\begin{document}
\[
\int^{T_{2}}_{T_{1}}Q_{A_{n}}dt \thickapprox \int^{2.4}_{0}Q_{B_{n}} dt 
\]
\end{document}

%FontSize=11
%TeXFontSize=11
\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}\frac{dP}{d\rho} = \frac{E_n}{\rho_n} \\ \\\frac{d\rho_{B_{n}}}{dt} = \frac{Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}}}{V}\\ \\ \frac{dP_{B_{n}}}{dt} = \frac{(Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}})\cdot E_{n}}{V\cdot\rho_{n}}\\ \\ Q_{A_{n}} = C \cdot A \cdot \sqrt{\frac{2\cdot(P_{A_{n}} - P_{B_{n}})}{\rho_{A_{n} }}}\\ \\\rho_{n+1} = \rho_{n} + \Delta p \cdot \frac{\rho_{n}}{E_{n}} \\ \\\rho_{B_{n+1}} =\rho_{n} + \frac{Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}}}{V}\end{cases}
 %
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}\rho_{n+1} = \rho_{n} + \Delta p \cdot \frac{\rho_{n}}{E_{n}} \\ \\\rho_{B_{n+1}} =\rho_{n} + \frac{Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}}}{V} \\ \\  P_{B_{n+1}}= P_{B_{n}}+\frac{(Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}})\cdot E_{n}}{V\cdot\rho_{n}}\cdot \Delta t \\ \\ P_{A_{n}} = 160 MPa \qquad P_{B_{0}} = 100 MPa\\ E_{0} = 2171.4MPa \qquad \rho_{0}=0.850 mg/mm^{3} \\ \Delta t = 0.1ms\end{cases}
 %
 \]
\end{document}

%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}\rho_{n+1} = \rho_{n} + \Delta p \cdot \frac{\rho_{n}}{E_{n}} \\ \\\rho_{B_{n+1}} =\rho_{n} + \frac{Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}}}{V} \\ \\  P_{B_{n+1}}= P_{B_{n}}+\frac{(Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}})\cdot E_{n}}{V\cdot\rho_{n}}\cdot \Delta t \\ \\ P_{A_{n}} = 160 MPa \qquad P_{B_{0}} = 150 MPa\\ E_{0} = 2664.3MPa \qquad \rho_{B_{0}}=0.86795 mg/mm^{3} \\ \Delta t = 0.1ms\end{cases}
 %
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 \begin{cases}
P_{B_{n}} = P_{C_{n}} \\ \\
Q_{B_{n}} = Q_{C_{n}} \\ \\
Q_{A_{n}} = Q_{B_{n}} + Q_{C_{n}} \\ \\
P_{A_{n}} = P_{A_{n}} + \Delta \rho_{A_{n}} \cdot \frac{\rho_{n}}{E_{n}} \\ \\
P_{B_{n+1}}= P_{B_{n}}+\frac{(Q_{A_{n}}\cdot\rho_{A_{n} }- Q_{B_{n}}\cdot\rho_{B_{n}})\cdot E_{n}}{V\cdot\rho_{n}}\cdot \Delta t  \\ \\
\omega= \frac{\Delta \theta_{n}}{\Delta t}

 \end{cases}
 %
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 P_{B_{n}} = P_{C_{n}}
 \]
\end{document}

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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
 Q_{B_{n}} = Q_{C_{n}} 
 \]
\end{document}

%FontSize=11
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\documentclass{article}
\usepackage{amsmath}
\pagestyle{empty}
\begin{document}
 \[
Q_{A_{n}} = Q_{B_{n}} + Q_{C_{n}}= 2Q_{B_{n}} = 2Q_{C_{n}}
 \]
\end{document}