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Electric field strength at any point is given by

Fun: This one uses the amsmath package due to using \nostack. This avoids alignment, alignment, collection, matrix, ... environments, but I had to pay the price for alignment manually. \documentclass[12pt]{article} \usepackage{amsmath} \begin{document} $$\Large\left\{\substack{\hspace{-2.1cm}\,k_{i\omega}/k_{p\omega}\,=\,2\pi\,\times\, 10\vspace{0.2cm}\\\,\left|\frac{k_{p\omega}s\,+\,k_{i\omega}}{s}\,\cdot\,\frac{1}{Ts\,+\,1}\right|_{s\,=\,{\rm j}\,\cdot\,2\pi}\,=\,1}\right.$$ \end{document} I have the following systems of equations and I want them to be side by side, each of them having a brief description below, which is the text I've written after the \end{cases}\\? Below is my source code, which outputs the two systems, but the one on the right is a bit lower than the other one: \begin{flushleft} \begin{cases} I_{50}+I_{10}=I_{03}\\ I_{21}=I_{12}+I_{10}\\ I_{12}+I_{32}=I_{21}\\ I_{03}=I_{32}+I_{34}\\ I_{34}=I_{451}+I_{452}\\ \end{cases}\\, pentru legea I, si \end{flushleft} \begin{flushright} \begin{cases} U_{30}+U_{01}+U_{121}+U_{23}=0\\ U_{34}+U_{452}+U_{50}+U_{30}=0\\ U_{121}+U_{122}=0\\ U_{451}+U_{452}=0\\ \end{cases} \\ pentru legea a II-a \end{flushright} I liked @Ken's idea, but, once you have opted for a solution that uses nested cases-like environments , there is an obvious improvement that allows to get rid of excess unwanted brace, and it is to use the facilities offered by the mathtools package. The Mathtools package has an ewcases command that allows you to configure exactly new case-like environments with custom settings. In particular, it allows you to specify custom delimiters on either side. There are already several responses on this site describing this command (just look for new nuts on the site), so I'm not going to live here on the details; However, the sample code below contains notes that would be sufficient as a quick and essential reference. The idea is to define two new case-by-case environments, one on both sides and the other with empty separators on both sides; keep in mind, however, that the empty separator actually contributes to the horizontal width of ulldelimiterspace, so you need to compensate for this with suitable negative kern. % Information vakio-TeX.SX: \documentclass[a4paper]{article} % To avoid confusion, we explicitly report the paper format % . \usepackage[T1]{fontenc} % Not always required, but recommended. The remaining percentage of the standard header. What follows concerns the root of the problem at hand. \usepackage{mathtools} % also automatically loads amsmath \sweetetletter % Arguments for ewcases command (mathtools.sty, changed): %#1 <- name of new environment; < #2 percent of columns; % #3 < alignment preamble (see TeXbook, Ch. 22), left column; % #4 <- alignment preamble, right column; #5 <left (e.g. (e.g. % #6 < legal separator (e.g. . in the case of standard cases); % To illustrate all possibilities, we are now defining *4* % of new case-like environments (although we only need one of them): % of them are on both sides, but they differ in context % of their content is types. the correct column is math: ewcases{doublecases} {\quad} {$\m@th{##}$\hfil} {$\m@th{##}$\hfil} {\lbrace} {\rbrace} % The left column is math, the correct column is text: ewcases{doublecases*} {\quad} {$\m@th{##}\hfil } {{{#}\hfil} {\lbrace} {\rbrace} % The left column is screen-style math, the correct column is display-style math: ewcases{ddoublecases} {\quad} {$\m@th\displaystyle{##}$\hfil} {$\m@th\displaystyle{##}$/hfil} {\lbrace } {\rbrace} % The left column is screen-style math, the correct column is text: ewcases{ddoublecases*} {\quad} {$\m@th\displaystyle{##}$\hfil} {{{#}\hfil} {\lbrace} %Case (!), however, we only specify the variant that we really need: % Left column is right aligned text, right column... Does not matter: ewcases{nullcases} {\quad} {\hfil{##}} {{##}\hfil} {.} {.} \makeatother \begin{document} Any text before formula. \[X(m, n) = \begin{ddoublecases} x(n), & \kern -ulldelimiterspace \begin{nullcases} % beware of spaces! $0 \leq n \leq 1$\\ or $0 \leq n \leq 1$% \end{nullcases} \kern -ulldelimiterspace \\ x(n - 1), & \text{for $10 \leq n \leq 1$} \\ x(n - 1), & \text{for $0 \leq n \leq 1$} \end{ddoublecases} = xy \] Part of text after equation. \end{document} Here's the printout: How to write multiple linear equation systems on a single line with automatic migration? \begin{multline*} \begin{split} \begin{cases} - x + 8y = -15\\ 4x -4y = 32\\ \end{cases} \end{split} \end{multline*} % \begin{multline*} \begin{split} \begin{cases} y = \cfrac{x -- 15}{8}\\ 4x -4y = 32\\ \end{cases} \end{split} \end{multline*} % \begin{multline*} \begin{split} \begin{cases} y = \cfrac{x-15}{8}\\ 4x -4(\4 4(\) cfrac{x-15}{8}) = 32\\ \end{cases} \end{split} \end{multline*} % \begin{multline*} \begin{split} \begin{cases} y = \cfrac{x-15}{8}\\ 7x = 49\\ \ end{cases} \end{split} \end{multline*} % \begin{multline*} \begin{split} \begin{cases} y = -1\\ x = 7\\ \end{cases} \end{split} \end{multline*} % I want to write down multiple systems of linear equations so that they go from left to right, top-down (example of solving a system of linear equations) , and not repeat under another (by default). The \begin{alignat*}{4}[left = \empheqlbrace] solution that you use for your answer requires manual editing & 6 and & 6 to create the appearance of left focus in the final column. If this is too laborious and/or error-prone, also consider the \systeme and matrix-based solutions below. that the three solutions produce exactly the same output. Inches Inches your decision should then be based mainly on the convenientness of the feeding process. I think the input comfort of the systemic method is hard to beat. However, just for the sake of flexibility, the table-based method must be the pinnacle; however, its input costs go beyond the systeme approach (and are about the same as empheq appoach). \documentclass{article} \usepackage{amsmath} % ratkaisulle 1 \usepackage[overload]{empheq} % ratkaisulle 2 \usepackage{systeme} % ratkaisulle 3 \usepackage{array} % ratkaisulle 4 ewcolumntype{C}{>{{}}c<{{} \begin{document} %% Ratkaisu 1: käytä alignaa *' \begin{alignat*}{4} 2x & {}+{} & y & {}+{} & 3z & {}={} & 10 \\ x & {}+{} & y & {}+{} & z & {}={} & 6 \\ x & {}+{} & 3y & {}+{} & 2z & {}={} & 13 \end{alignat*} %% Ratkaisu 2 : use empheq machines and \phantom directive \begin{alignat*}{4}[left = \empheqlbrace]2x & {}+{} & y & {}+{} & 3z & {}={} & 10 \\ x & {}+{} & y & {}+{} & z & {}={} & 6 \\ % <- Note x & {}+{} & 3y & {}+{} & 2z & {}={} & 13 \end{alignat*} %% Solution 3: use systeme machines \[\systeme{2x+y+3z=10, x+y+z=6, x+3y+2z=13} \] %% Solution 4 : use the basic system . {3} . x and y s y s 3z s 2014-01-28 21:56:47 8521 Collection Last published: 2014-2014-01 -28 21:56:4 7 first published: 2014-01-28 21:56:47 When we enter segment function formulas, we often use the environment of the case, as we have previously described (LaTeX Technology 202). Similar to LaTex skill 188), but if we have to make a detailed difference in numbers, as we think of the following numbering method: Or we use cases of macro package to achieve, note: when we add in the deployment area, we have to be after the package of uses (amsmath), otherwise the run will not go through, then the specific reason is not clear, there may be a macro package conflict. Here's a diagram of our experimental results: demo code: documentclass snr. SGS: s begin snumase case_n case_2 case_1 _side snr. {|x|=} x, &$x\ge 0$,\\ -x, &$x<0$. s end(subnumcases) . $x < $x . Keep up to date with TA's latest blog post ©2020 CSDN Skin Theme: Big White Designer: CSDN Official Blog Back Home Information and Discussion about LaTeX's math and science features (e.g. formulas, charts). Phillip. 2 Joined: Tue 30.12.2014 8:39 pm Postby Phillip » Tue 30.12.2014 9:06 pm Dear community,domains there are several equations. Some of these equations contain cases. Do you know of any way to allow consistent horizontal aligning of domains? The case in the Leveling environment results in domains not being leveled in the same location. Example\begin{align}a_i &= \begin{dcases}b_i & i \leq 0 \\c_i & i < 0 \end{dcases} \\d_i &= e_i &\forall i\end{align}Thank you in advance and happy New Year! Phillip Attachments Example Clipboard02.jpg (6.6 KiB) Viewed 15536 times Tags: Johannes_B Site Administrator Posts: 4186 Pasted: Thu November 01, 2012 4:08 pm Postby Johannes_B » Tue 30,2014 10:03 pm High and welcome, I did not test your example because it cannot be assembled and my battery is low. But you're finishing the line after the cash cans with a double backrest. If I understood correctly, you need to type all i« just before ending the line, i.e. \end{cases} \forall i \\ Smart way: Calm down and take a deep breath, read messages and give links attentively, try to understand and ask if necessary. Phillip Posts: 2 Joined: Tue 30.12.2014 20:39 Postby Phillip » Tue 30.12.2014 11:25 Thank you for your quick response! I clearly do not think I presented a problem. Look at this picture. It's a photomontase. It shows what the result should look like. You can see that the alignment marks are aligned AND the domains are aligned. Unfortunately, your proposal will not lead to such a result. Attachments photo montaged of desired outcome Clipboard09.jpg (5.96 KiB) Viewed 15515 times Johannes_B Site moderator Messages: 4186 Connected: Thu 111, 2012 4:08 pm Postby Johannes_B » Tue Jan 06, 2015 5:22 pm Sorry late answer, your question somehow disappeared selling inside the stack. I am not sure it is possible to target it correctly, I would just suggest that this be passed on manually. However, if you need to do this several times, this is not a good solution. \documentclass{article}\usepackage{mathtools}\begin{document}\begin{align} a_i &= \begin{dcases} b_i & i \leq 0 \\ c_i & i < 0 \end{dcases} \\ d_i &= e_i \quad\quad\forall i\end{align}\end{document} Smart way: Calm down and take a deep breath, read messages, and provide links attentively, try to understand and ask if necessary. Go to the user browsing this forum: No registered user and 4 guests

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