As we see here, the following formula is not centered as intended (all "=" should be at the same location) and additionally the formula number should not cause the formula to be shifted to the left.

$$\begin{aligned} z + 3y &= 1 \\ &= x^2 + 2 \\ &= f(x) \end{aligned} \tag{1}$$

It would be really great if this formula would be rendered like

$$\begin{aligned} z + 3y &= 1 \\ &= x^2 + 2 \\ &= f(x) \end{aligned} \tag{2}$$

(If the number of the formula would be at the last line, that would be totally okay.) To write formula numbers to the left causes the same problem, as we see here

$$\begin{aligned} (3) \qquad z + 3y &= 1 \\ &= x^2 + 2 \\ &= f(x) \end{aligned}$$

Furthermore it would be great if formulas like the following

$$\begin{aligned} z + 3y &= x^1 + x^2 + x^3 + x^4 + x^5 + x^6 + x^7 + x^8 + x^9 + x^{10} + x^{11} + \\ &\quad x^{12} + x^{13} + x^{14} + x^{15} + x^{16} + x^{17} + x^{18} + x^{19} + x^{20} + x^{21} + \\ &\quad x^{22} + x^{23} + x^{24} + x^{25} + x^{26} \\ &= z^2 + 2 \end{aligned}$$

could be automatically typeset like

$$\begin{aligned} z + 3y &= x^1 + x^2 + x^3 + x^4 + x^5 + x^6 + x^7 + x^8 + x^9 + x^{10} + x^{11} \\ &\quad + x^{12} + x^{13} + x^{14} + x^{15} + x^{16} + x^{17} + x^{18} + x^{19} + x^{20} + x^{21} \\ &\quad + x^{22} + x^{23} + x^{24} + x^{25} + x^{26} \\ &= z^2 + 2. \end{aligned}$$

So it would be really great if the typeset algorithm checks if the first symbol of the new line is an "=" and if it is not it should shift the next line a little to the right (for better optical feedback). There could be a key that specifies that shifting distance.
Besides we see in the next formula that the `breakhere` command is disabled if you activate the `mathalignment` environment. It would be really great if both could be combined.

$$\begin{aligned} f(x) &= x^2 \\ &= x^3 + 1x^{1x} + 2x^{1x} + 2x^{2x} + 3x^{1x} + 3x^{2x} + 3x^{3x} + 4x^{1x} + 4x^{2x} + 4x^{3x} + 4x^{4x} \end{aligned}$$

Furthmore we see below that the `mathalignment` environment causes the auto breaking across pages to be disabled. It would be very useful if it would be possible to get auto page breaking even if you use this environment. I think that this is even more important than getting `breakhere` to work together with the `mathalignment` environment. In every case, the location of the formula number using `mathalignment` should be fixed if auto breaking is enabled. As we see it is rendered at the first line of the equation and in this special example this is right on another page as the formula itself.

(4)

$$
\begin{aligned}
f(x) &= x^2 \\
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\end{aligned}
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