XReview: Equations

To deal with removed and added equations, *xreview* provides the **remequation**, **remequation***, **addequation**, **addequation*** environments.

remequation and **remequation*** typeset equations as if they were **\removed** and **are indistinguishible from equation and equation* in the clean version**.

addequation and **addequation*** typeset equations as if they were **\added** and **hide them from the clean version**.

xreview also takes care of properly deal with equation numbering, to ensure that **equation numbering will not change between the annotated and clean versions**.

- **addequation*** and **remequation*** do not number the equation;

- **addequation** follows on from regular equation numbering;

- **remequation** introduces **a separate numbering scheme** for removed equations that one still wishes to reference.

The prefix for removed equation numbering is normally a capital 'R'. However, this can be customized to one's preference. These labels are fully compatible with referencing commands such as **\label**, **\ref**, and **\eqref**.

LATEX Code | **\showchanges** | **\showclean**

This equation is kept
```
\begin{equation}
    a+b=c
\end{equation}
```
while this is removed and labelled
```
\begin{remequation}
    a+b = d
\label{eq:remeq}
\end{remequation}
```
without altering the normal equation numbering.
```
\begin{equation}
    b+c = d
\end{equation}
```
This is added instead
```
\begin{addequaiton}
    b = 3
\end{addequation}
```

This equation is kept

$$a + b = c \qquad (1)$$

while this is removed and labelled

$$a + b = d \qquad (R1)$$

without altering the normal equation numbering.

$$b + c = d \qquad (2)$$

This is added instead

$$b = 3 \qquad (3)$$

This equation is kept

$$a + b = c \qquad (1)$$

while this is removed and labelled without altering the normal equation numbering.

$$b + c = d \qquad (2)$$

This is added instead

$$b = 3 \qquad (3)$$

Now I can reference the removed Eq. (R1) via \eqref{eq:remeq}.