Github flavoured markdown supports LaTeX formatted mathematical expressions.

```
--- MATHEMATICAL EXPRESSION ---

Mathematical expressions are rendered inline with `$` characters.

$\sqrt{3x-1}+(1+x)^2$

Block mathematical expressions (automatically centralised) are rendered with `$$` characters.

$$\left( \sum_{k=1}^n a_k b_k \right)^2 \leq \left( \sum_{k=1}^n a_k^2 \right) \left( \sum_{k=1}^n b_k^2 \right)$$

Block mathematical expressions can also be rendered with `math` as a code block (the below will render the same as the above).

```math
\left( \sum_{k=1}^n a_k b_k \right)^2 \leq \left( \sum_{k=1}^n a_k^2 \right) \left( \sum_{k=1}^n b_k^2 \right)
```
```

Alerts

Github flavoured markdown also supports alerts to signpost significant content.

```
----- ALERT -----

> [!NOTE]
> blue circle containing exclamation mark

> [!TIP]
> green lightbulb
```