Writing Maths

Latex Guide!

This is some text and if we want to show an equation we just write $f(x) = x^2$, after that we can just continue with the text normally.

This is some text.

$$f(x) = x^2$$
.

Some more text.

This is some text.

$$f(x) = x^2.$$

Some more text, now indented.

Some text introducing the equation.

$$f(x) = x^3. (1)$$

You can see that the function (1) is different than the previous one.

$$J_v + J_{v+1} \approx \int_{x_{v-1}}^{x_v + 1} \gamma dx = \int_{x_{v-1}}^{x + 2h} \gamma dx$$

$$= 2h f_{v-1} + 2h (f_v - f_{v-1}) + \frac{\frac{8}{3}h - 2h}{2} (f_{v+1} - 2fv + f_{v-1})$$

$$= \frac{h}{3} (f_{v-1} + 4f_v + f_{v+1}).$$