

Without grid:

(left)

$$\forall \varepsilon > 0, \exists \delta > 0, \quad |P(x) - P(\delta)| < \varepsilon$$

(right)

Thus, this is intertext, keeping alignment

$$\lim_{t \rightarrow 0} f(t) = f(x)$$

(blah blah)

Inside grid, Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat.	
left aligned	<div>$x(2x - 1) = 0 \qquad \text{(factorize } x)$$\therefore x = 0, \frac{1}{2} \qquad \blacksquare$</div>
intertext,	
	<div>$Q_t(a) = \frac{\sum_{i=1}^{t-1} \mathbb{1}_{A_i=a} X_i}{\sum_{i=1}^{t-1} \mathbb{1}_{A_i=a}} = \hat{\mu}_a(t-1) \qquad \text{(abc)}$</div>
for $\mathcal{E}_{\text{SG}}^2$:	<div>$\frac{1}{2} \mathbb{P}(X - \mathbb{E}[X] \geq \varepsilon) \leq \exp\left(-\frac{\varepsilon^2}{2\sigma^2}\right) \qquad \text{(sgc)}$</div>
	<div>$A_t = \arg \max_{a \in \mathcal{A}} Q_t(a)$<p>thus, this is a very long multiline intertext that is auto spaced Lorem ipsum dolor sit amet, consectetur adipiscing elit.:</p>$A_t = 2 \qquad \text{(2nd arm in } \mathcal{A})$<p>I can right flush text that takes up vertical space too</p>$\therefore t = 5$<p>From Equation (sgc), we know that...</p></div>

As per Equation (abc) above,

For all $a \in \mathcal{A}$,

$$Q_t(a) \longrightarrow \mu_a$$

(abc)

Now, Equation (abc) refers to the equation right above this paragraph, instead of the first one.

$$Q_t(a) \longrightarrow 0$$

(abc)

Now I can refer to both the new Equation (abc) and the old Equation (abc). I can also link to my equation using a **custom reference text**